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Table 4

## Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1607	14353	27041	3.03	9.0E-48	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-48, and partial cds, alternatively spliced
3544	18289	28950	0.82	9.0E-48	BF359947.1	EST_HUMAN	CM2-NT0100-310700-290-005 MTO100 Homo sapiens cDNA
5594	18389	31289	0.86	9.0E-48	BE888196.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'
5594	18389	31300	0.86	9.0E-48	BE888196.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'
6010	18791	31754	0.66	9.0E-48	AI833168.1	EST_HUMAN	at75h09.x1 Barstead cdon HPLRB7 Homo sapiens cDNA clone IMAGE:2377899 3' similar to TR:O60844
6131	18909	31877	0.64	9.0E-48	AU123240.1	EST_HUMAN	O60844 HOMOLOG OF RAT ZYMOGEN GRANULE MEMBRANE PROTEIN. ;
11060	23730	37002	3.09	9.0E-48	BE393813.1	EST_HUMAN	AU123240 NT2RM1 Homo sapiens cDNA clone NT2RM1000978 5'
1228	13978		1.44	8.0E-48	4501900	NT	607310479F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632083 5'
1229	13978		1.7	8.0E-48	4501900	NT	Homo sapiens aminocyclase 1 (ACY1), mRNA
3132	15897	28541	4.38	8.0E-48	AW768477.1	EST_HUMAN	Hk81b03.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' similar to gb:X64707
3132	15897	28542	4.38	8.0E-48	AW768477.1	EST_HUMAN	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
3911	16861	28302	0.79	8.0E-48	4504116	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
478	13264		1.27	7.0E-48	AB033035.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
479	13264		17.09	7.0E-48	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
1483	14230	26916	0.98	7.0E-48	6912719	NT	Homo sapiens tousel-like kinase 1 (TLK1), mRNA
1634	14380	27067	3.89	7.0E-48	5730038	NT	Homo sapiens SET domain and methyltransferase fusion gene (SETMAR) mRNA
6460	19227	32227	27.21	7.0E-48	11416831	NT	Homo sapiens histidyl-tRNA synthetase (HARS), mRNA
5967	18749	31710	0.91	6.0E-48	AB006855.1	NT	Homo sapiens mRNA for ALE-75, complete cds
6888	19605	32845	1.08	6.0E-48	11420995	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX), mRNA
7365	25111	33123	0.58	6.0E-48	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
7365	25111	33124	0.59	6.0E-48	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
9022	21712	34866	2.07	6.0E-48	AF028816.1	NT	Homo sapiens putative oncogene protein mRNA, partial cds
9441	22119	35296	1.74	6.0E-48	11427428	NT	Homo sapiens hypothetical protein FLJ11008 (FLJ11008), mRNA
9588	22241	35425	3.2	6.0E-48	AA189080.1	EST_HUMAN	2445b06.s1 Stratiogene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632827 3' similar to
3304	17676	28713	1.94	5.0E-48	4828891	NT	contains Alu repetitive element
8474	21166	34310	1.25	5.0E-48	BE064410.1	EST_HUMAN	Homo sapiens phosphodiesterase 1A, calmodulin-dependent (PDE1A) mRNA
11803	24202	37524	1.39	5.0E-48	AW890288.1	EST_HUMAN	RC4-BT0311-141189-011-h08 BT0311 Homo sapiens cDNA
10878	23558	36806	3.96	4.0E-48	AI620420.1	EST_HUMAN	MRO-NT0039-010500-002-f08 NT0039 Homo sapiens cDNA
1364	14112	26786	1.27	3.0E-48	AV690364.1	EST_HUMAN	u47802.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2254154 3'

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1989	14705	27422	15.26	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
1989	14705	27423	15.26	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
3622	16375	29017	0.75	3.0E-48	AW664531.1	EST_HUMAN	h14b12.x1 NCL CGAP_GUT1 Homo sapiens cDNA clone IMAGE:2972255 3' similar to SW:DORB_HUMAN
5804	18594	31519	2.47	3.0E-48	BE084571.1	EST_HUMAN	P96595 DOWN SYNDROME CRITICAL REGION PROTEIN B. ;
6919	19855	32701	0.94	3.0E-48	AF087913.1	NT	MR4-BT0657-060400-201-e10 BT0657 Homo sapiens cDNA
							Human endogenous retrovirus HERV-P-T47D
8280	20984		3.41	3.0E-48	AA659930.1	EST_HUMAN	nc03f05.s1 NCL CGAP_P22 Homo sapiens cDNA clone IMAGE:1219137 3' similar to contains PTR5.b1
							PTR5 repetitive element ;
10784	23467	38708	9.52	3.0E-48	BF514170.1	EST_HUMAN	U1H-BW1-en1-a-10-0-UJ.s1 NCL CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082267 3'
44	12873	25495	1.71	2.0E-48	AA631940.1	EST_HUMAN	fm1c7 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR17-26
1197	13949		5.15	2.0E-48	H24278.1	EST_HUMAN	ym55e10.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:52182 5' similar to
							SP:M8B_MOUSE P35803 MEMBRANE GLYCOPROTEIN ;
4495	17231	29881	1.42	2.0E-48	BE246085.1	EST_HUMAN	TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project TCB4 Homo
							sapiens cDNA clone TCBAP3842
5724	18518	31435	0.61	2.0E-48	AA613171.1	EST_HUMAN	nc18g01.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
5724	18518	31437	0.61	2.0E-48	AA613171.1	EST_HUMAN	nc18g01.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
7419	20096	33182	4.77	2.0E-48	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
7419	20096	33183	4.77	2.0E-48	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
7432	20109	33197	3.35	2.0E-48	11496238	NT	Homo sapiens v-rel avian reticulendotheliosis viral oncogene homolog A (nuclear factor of kappa light
							polypeptide gene enhancer in B-cells 3 (p65)) (RELA), mRNA
8253	20547	34084	1.33	2.0E-48	AV743451.1	EST_HUMAN	AV743451 CB Homo sapiens cDNA clone CBCCGG10 5'
12041	17888	30486	4.27	2.0E-48	AA495007.1	EST_HUMAN	z880c03.r1 Soares ovary tumor NBH07 Homo sapiens cDNA clone IMAGE:810052 5'
12367	25232	30820	1.86	2.0E-48	BE737154.1	EST_HUMAN	601305064F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639782 5'
							ym55e10.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:52182 5' similar to
12716	13949		1.34	2.0E-48	H24278.1	EST_HUMAN	SP:M8B_MOUSE P35803 MEMBRANE GLYCOPROTEIN ;
54	12883	25511	2.3	1.0E-48	7706534	NT	Homo sapiens cisplatin resistance-associated overexpressed protein (LOC51747), mRNA
853	13923	28293	17.13	1.0E-48	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1273	14023	26691	3.77	1.0E-48	5032032	NT	Homo sapiens RNA binding motif protein 6 (RBM6) mRNA
1911	14648	27359	30.36	1.0E-48	AL163302.2	NT	Homo sapiens chromosome 21 segment HS21C102
3481	16238	28894	0.98	1.0E-48	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
5061	17780	30398	1.6	1.0E-48	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
6195	18971	31946	1.17	1.0E-48	AI889077.1	EST_HUMAN	td17c01.x1 NCL CGAP_C016 Homo sapiens cDNA clone IMAGE:2075904 3' similar to TR.O14588 O14588
							SIMILARITY TO U73941 ;

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6185	18971	31947	1.17	1.0E-48	AI899077.1	EST_HUMAN	ts17c01.x1 NCL CGAP_Cor16 Homo sapiens cDNA clone IMAGE:2075904.3 similar to TR:O14588 O14588 SIMILARITY TO U73941.1
6407	19176		0.94	1.0E-48	Y18000.1	NT	Homo sapiens NF2 gene
6500	19265	32266	0.71	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
6500	19265	32267	0.71	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
7157	19944	32913	2.52	1.0E-48	4755137	NT	Homo sapiens huntingtin (Huntington disease) (HD) mRNA
8730	21422	34566	0.76	1.0E-48	4755695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13) mRNA
8730	21422	34567	0.76	1.0E-48	4755695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13) mRNA
9113	21801	34966	0.84	1.0E-48	4502838	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
9168	21838	35004	6.4	1.0E-48	AB033071.1	NT	Homo sapiens mRNA for KIAA1245 protein, partial cds
9481	22134	35314	5.33	1.0E-48	BF304683.1	EST_HUMAN	60188806F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119.5
10269	22917	36127	4.08	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65) mRNA
10269	22917	36128	4.08	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65) mRNA
2002	14737	27461	1.13	8.0E-49	AB028497.1	NT	Mus musculus MysPDZ mRNA for myosin containing PDZ domain, complete cds
5982	18744	31705	3.43	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
5982	18744	31705	3.43	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
8194	20888	34026	3.17	8.0E-49	U23850.1	NT	Human Inositol 1,4,5 triphosphate receptor type 1 mRNA, partial cds
9889	22539	35733	1.15	8.0E-49	AB008881.1	NT	Homo sapiens gene for activin receptor type 1B, complete cds
135	13171	25815	1	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
135	13171	25815	1	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
364	13171	25814	1.73	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
364	13171	25815	1.73	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
365	13171	25814	2.94	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
365	13171	25815	2.94	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
1199	13951	26615	3.4	7.0E-49	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5373	18173	30862	2.11	7.0E-49	AI807191.1	EST_HUMAN	Wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663.3 similar to TR:O54923 O54923 RSEC15.1
5383	18183	30873	1.46	7.0E-49	AL120837.1	EST_HUMAN	DKFZp762C033_s1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762C033.3
5716	18173	30862	0.67	7.0E-49	AI807191.1	EST_HUMAN	Wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663.3 similar to TR:O54923 O54923 RSEC15.1
182	13005	25846	12.12	6.0E-49	AW731740.1	EST_HUMAN	ba55g05.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900504.3 similar to gb-X17206.40S RIBOSOMAL PROTEIN S4 (HUMAN); gb-M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
4095	16837	28464	1.27	6.0E-49	AL162081.1	EST_HUMAN	DKFZp761A138_s1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A138.3

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6349	19119	32109	0.84	6.0E-49	AU140742.1	EST_HUMAN	AU140742 PLACE4 Homo sapiens cDNA clone PLACE4000148 5'
7314	19997	33076	0.89	6.0E-49	AW511225.1	EST_HUMAN	hd44902.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O95636
9633	22285	35478	0.45	6.0E-49	9910293	NT	O95636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.; Mus musculus keratin complex 2, gene 6g (K12-6g), mRNA
9633	22285	35479	0.45	6.0E-49	9910293	NT	Mus musculus keratin complex 2, gene 6g (K12-6g), mRNA
11248	23910	37202	2.6	6.0E-49	AW452218.1	EST_HUMAN	UI-HB13-alo-a-05-U1.s1 NC1_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068048 3'
11661	24257	37579	2.6	6.0E-49	AA366556.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
11661	24257	37580	2.6	6.0E-49	AA366556.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
12362	25151	37580	2.03	6.0E-49	AA707587.1	EST_HUMAN	z129c08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:451694 3'
695	13470	26117	7	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
695	13470	26118	7	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1788	14527	27235	3.49	5.0E-49	AA172121.1	EST_HUMAN	zp29c07.r1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610860 5' similar to TR:G233226 G233226 RTVL-H PROTEIN.; contains LTR7.8 LTR7 LTR7 repetitive element;
2754	15465	28201	4.25	5.0E-49	U17714.1	NT	Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds
3267	16029	28678	2.64	5.0E-49	11436355	NT	Homo sapiens similar to ribosomal protein S27 (metalloprotein 1) (H. sapiens) (LOC63362), mRNA
512	13296	25927	47.84	4.0E-49	AW189533.1	EST_HUMAN	x108b01.x1 NC1_CGAP_U14 Homo sapiens cDNA clone IMAGE:2875553 3' similar to WP:B0350 2B CE08703;
7172	19858	32930	0.95	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GalNac-T8) (GALNT8), mRNA
7172	19858	32931	0.95	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GalNac-T8) (GALNT8), mRNA
7710	20374	33488	0.9	4.0E-49	7682209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
8763	21455	34604	0.47	4.0E-49	11425374	NT	Homo sapiens copine III (CPNE3), mRNA
8763	21455	34605	0.47	4.0E-49	11425374	NT	Homo sapiens copine III (CPNE3), mRNA
12221	25398		4.21	4.0E-49	AA210798.1	EST_HUMAN	zr8f005.r1 NC1_CGAP_GOB1 Homo sapiens cDNA clone IMAGE:682977 5'
12308	24730		4.1	4.0E-49	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
547	13330	25981	1.73	3.0E-49	X68968.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
2654	15364		1.9	3.0E-49	AA016131.1	EST_HUMAN	z631c05.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1 L3 L1 repetitive element;
4923	17651	30264	2.33	3.0E-49	U48999.1	NT	Human type IV collagen (COL4A6) gene, exon 40
7319	20002	33081	11.87	3.0E-49	H39479.1	EST_HUMAN	EST25e12 WATM1 Homo sapiens cDNA clone 25e12



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11272	23933	37226	1.98	3.0E-49	AA337561.1	EST_HUMAN	EST42572 Endometrial tumor Homo sapiens cDNA 5' and
648	13425		2.94	2.0E-49	BE165980.1	EST_HUMAN	MR3-HIT0487-150200-113-g01 HT0487 Homo sapiens cDNA
3216	15979	28630	1.64	2.0E-49	N28446.1	EST_HUMAN	yx23d06.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:262571 5'
							oz88d02.x1 Soares senescent fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1682403 3' similar to gb:M31470 RAS-LIKE PROTEIN TC10 (HUMAN); contains Alu repetitive element; contains element MER22 repetitive element;
4746	17478	30110	0.68	2.0E-49	AI187357.1	EST_HUMAN	U1-H-B14-aps-4-02-0-U1.s1 NCI_QCAP_Sub88 Homo sapiens cDNA clone IMAGE:3088538 3'
4758	17480	30118	0.74	2.0E-49	BF511846.1	EST_HUMAN	AV717938 DCB Homo sapiens cDNA clone DCBALB01 5'
6637	19399	32414	1.17	2.0E-49	AV717938.1	EST_HUMAN	EST02558 Fetal brain, Stralagene (cat#336206) Homo sapiens cDNA clone HFBCY50
7998	20693		1.74	2.0E-49	M86033.1	EST_HUMAN	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
12316	25250		2.07	2.0E-49	AF163864.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
879	13648		5	1.0E-49	BF035327.1	EST_HUMAN	Homo sapiens keratin 18 (KRT18) mRNA
1548	14292	26978	1.11	1.0E-49	4557887	NT	601115769F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356273 5'
1794	14534	27243	4.82	1.0E-49	BE255216.1	EST_HUMAN	601820053F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4052052 5'
5276	18080	30737	6.82	1.0E-49	BF131007.1	EST_HUMAN	YH48H04.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:171703 5' similar to SP:GBG1_HUMAN Q08447 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT ;
5986	18767	31731	0.88	1.0E-49	H18281.1	EST_HUMAN	EST376713 IMAGE resequences, MAGH Homo sapiens cDNA
5992	18773	31736	5.55	1.0E-49	AW964640.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBGVD11 5'
7117	19805	32869	0.62	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBGVD11 5'
7117	19805	32870	0.62	1.0E-49	AV703000.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7123	19811	32878	3.55	1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7123	19811	32879	3.55	1.0E-49	BE398110.1	EST_HUMAN	YH78g12.s1 Soares placenta_8to6weeks_2N6HP8t69W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7200	19886	32960	2.21	1.0E-49	N25884.1	EST_HUMAN	YH78g12.s1 Soares placenta_8to6weeks_2N6HP8t69W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7200	19886	32961	2.21	1.0E-49	N25884.1	EST_HUMAN	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
7977	20672	33795	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
7977	20672	33796	0.69	1.0E-49	11321580	NT	Homo sapiens RNA binding motif protein 7 (LOC51120), mRNA
8575	21287		0.66	1.0E-49	9994184	NT	Homo sapiens RNA binding motif protein 7 (LOC51120), mRNA
8891	21582	34721	1.29	1.0E-49	BE406340.1	EST_HUMAN	601300992F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635398 5'
10028	22674	35689	1.58	1.0E-49	AL043129.2	EST_HUMAN	DKFZp434D2423_r1_434 (synonym: hbs3) Homo sapiens cDNA clone DKFZp434D2423 5'
10379	23654	36907	1.43	1.0E-49	AV751477.1	EST_HUMAN	AV751477 NPD Homo sapiens cDNA clone NPDAWE04 5'
11281	23942	37236	3.32	1.0E-49	11427366	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12215	24677		2.46	1.0E-49	11418322	NT	Homo sapiens catherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
4937	17665		1.4	9.0E-50	AF101475.1	NT	Homo sapiens glycine N-methyltransferase (GNMT) gene, complete cds

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Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6310	25421		0.95	9.0E-50	BE295758.1	EST_HUMAN	601176250F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3331588 5'
186	12980	25619	4.05	8.0E-50	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
702	13477	26125	2.54	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
702	13477	26126	2.54	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
1758	14500	27201	2.82	8.0E-50	4501890	NT	Homo sapiens actinin, alpha 1 (ACTN1) mRNA
2703	15410	28147	1.48	8.0E-50	4926658	NT	Homo sapiens capping protein (actin filament) muscle Z-line, beta (CAPZB), mRNA
2833	14691		15.7	8.0E-50	D90334.1	NT	Homo sapiens hepatocyte growth factor (HGF) gene, exon 18
11385	23992	37293	1.29	8.0E-50	AA633467.1	EST_HUMAN	np62d06.s1 NCI_CGAP_B12 Homo sapiens cDNA clone IMAGE:1130891 3' similar to gb:J05459
805	13383	26015	0.76	7.0E-50	BE089591.1	EST_HUMAN	GLUTATHIONE S-TRANSFERASE TESTIS/BRAIN (HUMAN);
6687	19604	32643	1.06	7.0E-50	BF091922.1	EST_HUMAN	QV0-BT0703-280400-211-e08 BT0703 Homo sapiens cDNA
6687	19604	32644	1.06	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150600-011-A12 TN0073 Homo sapiens cDNA
							RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
7205	19890	32966	0.6	7.0E-50	AA627822.1	EST_HUMAN	nc59a12.s1 NCI_CGAP_C08 Homo sapiens cDNA clone IMAGE:1148206 3' similar to gb:X66991 60S
10666	23347	36584	7.65	7.0E-50	A1872137.1	EST_HUMAN	RIBOSOMAL PROTEIN L8 (HUMAN);
4309	17048		0.68	6.0E-50	BE794381.1	EST_HUMAN	601689565F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
							nc36h04.s1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29.b3
8112	20806		5.67	6.0E-50	BE044076.1	EST_HUMAN	MER29 repetitive element;
10717	23406	36646	12.6	6.0E-50	AA312079.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
10717	23406	36647	12.6	6.0E-50	AA312079.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
1785	14526	27233	1.1	5.0E-50	BF332938.1	EST_HUMAN	GM0-BT0792-300500-398-405 BT0792 Homo sapiens cDNA
1785	14526	27234	1.1	5.0E-50	BF332938.1	EST_HUMAN	GM0-BT0792-300500-398-505 BT0792 Homo sapiens cDNA
							nl45h10.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043683 similar to contains PTR5.3 PTR5
8990	21680		5.26	5.0E-50	AA557883.1	EST_HUMAN	repetitive element;
							nc54e09.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X53741_ma1
897	13665		1.71	4.0E-50	AA601143.1	EST_HUMAN	FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
3441	15197	28847	0.99	4.0E-50	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
6269	19041	32018	0.99	4.0E-50	11440683	NT	Homo sapiens cysteinyl-tRNA synthetase (CARS), mRNA
7135	19822	32868	1.95	4.0E-50	BE087536.1	EST_HUMAN	QV1-BT0681-280300-127-412 BT0681 Homo sapiens cDNA
1831	14667		4.13	3.0E-50	M18048.1	NT	Human endogenous retrovirus RTV_L-H2
3293	16054	28703	1.24	3.0E-50	AA746142.1	EST_HUMAN	cd03f06.s1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1322827 3'
							CMVA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMVA5
3734	16487	29124	1.14	3.0E-50	AW755254.1	EST_HUMAN	Cardiomyopathy associated gene 5

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6667	19584	32618	1.52	3.0E-50	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
7544	20214	33314	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FVE domain-containing dual specificity protein phosphatase FVE-DSP1a mRNA, complete cds
7544	20214	33315	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FVE domain-containing dual specificity protein phosphatase FVE-DSP1a mRNA, complete cds
8481	21173	34318	0.71	3.0E-50	6601559	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
9718	22369	35567	1.21	3.0E-50	AB048818.1	NT	Homo sapiens mRNA for KIAA1598 protein, partial cds
9727	22378	35580	0.99	3.0E-50	11418514	NT	Homo sapiens l-complex 10 (a murine top homolog) (TCP10), mRNA
10077	22725	35942	0.47	3.0E-50	Y18276.1	NT	Mus musculus mRNA for neurobeachin
10415	23061	36280	1.03	3.0E-50	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11045	23715	36984	1.61	3.0E-50	11436955	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
11441	23208	36439	5.35	3.0E-50	AJ245621.1	NT	Homo sapiens GTL2 gene
760	13532	13815	5.38	2.0E-50	AF055066.1	NT	Homo sapiens MHC class 1 region
1057	13815	26476	5.57	2.0E-50	4657752	NT	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1) mRNA
1424	14171	28857	2.25	2.0E-50	AF138303.1	NT	Homo sapiens decorin D mRNA, complete cds, alternatively spliced
6769	19513	32539	0.59	2.0E-50	AU124065	EST_HUMAN	AU124065 NT2RM2 Homo sapiens cDNA clone NT2RM2001609 5'
8215	20909	34044	1.02	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8215	20909	34045	1.02	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8355	21048	34186	10.04	2.0E-50	X06986.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
8355	21048	34187	10.04	2.0E-50	X06986.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
9784	22435	35941	1.51	2.0E-50	9910293	NT	Mus musculus keratin complex 2, gene 5g (Krt2-5g), mRNA
9784	22435	35942	1.51	2.0E-50	9910293	NT	Mus musculus keratin complex 2, gene 5g (Krt2-5g), mRNA
11660	24256	35842	1.8	2.0E-50	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
449	13235	25874	1.92	1.0E-50	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2365	15087	31876	9.48	1.0E-50	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
10093	22741	35956	1.57	1.0E-50	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
5893	18678	31824	1.21	9.0E-51	AW511225.1	EST_HUMAN	hd44e02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O95638
6130	18908	31876	0.71	9.0E-51	AA744837.1	EST_HUMAN	O95638 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.; ny67h03.s1 NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1283381 3'
8572	21264	34403	0.65	9.0E-51	AI791154.1	EST_HUMAN	ab23g04.x5 Stralagene lung (#937210) Homo sapiens cDNA clone IMAGE:841886 3' similar to SW:PSM_HUMAN Q04609 PROSTATE SPECIFIC MEMBRANE ANTIGEN;
9224	21903	35076	1.23	9.0E-51	AA043738.1	EST_HUMAN	zk51c09.r1 Soares_pregnant_uterus NHPU Homo sapiens cDNA clone IMAGE:486352 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9400	22092	35231	0.66	9.0E-51	AI791154.1	EST_HUMAN	ab23g04.x5 Stratiogene lung (#937210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
9400	22092	35232	0.66	9.0E-51	AI791154.1	EST_HUMAN	ab23g04.x5 Stratiogene lung (#937210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
11465	23222	36456	1.88	9.0E-51	H89078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
11465	23222	36457	1.89	9.0E-51	H89078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
11823	18908	31878	1.43	8.0E-51	AA744837.1	EST_HUMAN	ny67h03.s1 NCL CGAP_GCBT1 Homo sapiens cDNA clone IMAGE:1283381 3'
4405	17142	28770	1.45	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4405	17142	28771	1.45	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4530	17265	29898	8.43	8.0E-51	AA610842.1	EST_HUMAN	np98e09.s1 NCL CGAP_Lu1 Homo sapiens cDNA clone IMAGE:1142440 3' similar to gb:XI2871_mn1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
7582	20222	33325	2.24	8.0E-51	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NTY-CO-38), mRNA
9384	21938		1.13	8.0E-51	AU138590.1	EST_HUMAN	AU138590 PLACE1 Homo sapiens cDNA clone PLACE100887 5'
11812	20222	33325	2.02	8.0E-51	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NTY-CO-38), mRNA
3015	15781	28430	0.9	7.0E-51	AW274720.1	EST_HUMAN	xt34a03.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2695654 3' similar to TR:Q9Z340
3276	16037	28687	1.45	7.0E-51	AW889219.1	EST_HUMAN	Q9Z340 ATYPICAL PKC SPECIFIC BINDING PROTEIN ;
4148	16888	29518	1.37	7.0E-51	AL079628.1	EST_HUMAN	QV4-NT0028-200400-180-d05 NT0028 Homo sapiens cDNA
4148	16888	29520	1.37	7.0E-51	AL079628.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5'
4318	17057	29681	2.71	7.0E-51	AW295603.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5'
11686	24281	37603	1.34	7.0E-51	AF161448.1	NT	UI-H-BW0-ai-p-b-05-Q-U1.s1 NCL CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729817 3'
1872	14708	27426	4.96	6.0E-51	7657266	NT	Homo sapiens HSPC331 mRNA, partial cds
3466	16222	28876	14.73	6.0E-51	7657266	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
5901	18696	31634	1.56	6.0E-51	X01798.1	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
5912	18696	31648	9.95	6.0E-51	AF070083.1	NT	Human haptoglobin related (Hpr) gene exon 3
5912	18696	31649	9.95	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6883	19580	32615	1.02	6.0E-51	4508736	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6792	19536	32564	0.97	6.0E-51	11416761	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
6868	17945	30540	2.2	6.0E-51	11428665	NT	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC55699), mRNA
9035	21725	34878	0.88	6.0E-51	11428529	NT	Homo sapiens cerebral cell adhesion molecule (LOC51149), mRNA
9035	21725	34878	0.88	6.0E-51	11428529	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
6582	22235	35419	2.18	6.0E-51	7661535	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
							Homo sapiens B9 protein (B9), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9682	22314	35511	0.87	6.0E-51	U50093.1	NT	Human ankyrin (ANK1) gene, exon 2
11221	23884	37169	1.51	6.0E-51	11526289	NT	Homo sapiens interleukin 17 receptor (IL17R), mRNA
11515	24115	37425	1.52	6.0E-51	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
11515	24115	37428	1.52	6.0E-51	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
774	13546	26207	11.81	5.0E-51	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
785	13557	26219	1.98	5.0E-51	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
970	15557	26400	0.95	5.0E-51	AL133204.1	NT	Novel human gene mapping to chromosome X
1603	14349	27038	0.99	5.0E-51	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2601	15315	28052	8.87	5.0E-51	AJ007558.1	NT	Homo sapiens mRNA for nucleoporin 155
3925	16875	28316	1.52	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
3925	16875	29317	1.52	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
11249	23911	37203	4.18	5.0E-51	5803136	NT	Homo sapiens RNA binding motif protein 3 (RBM3), mRNA
1153	13908	28571	3.65	3.0E-51	AI587348.1	EST_HUMAN	tr81c09.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M26326
4292	17031	29659	1.97	3.0E-51	AL159142.1	NT	KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN); Novel human gene mapping to chromosome 22
7479	20152	33246	3	3.0E-51	R15914.1	EST_HUMAN	y847c08.r1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:53233 5' similar to gb:M14123_cds4
8738	21430		4.86	3.0E-51	M29063.1	NT	RETROVIRUS-RELATED POLYPROTEIN (HUMAN); contains LTR5 repetitive element;
8966	25430		0.47	3.0E-51	AW583777.1	EST_HUMAN	Human hRNP C2 protein mRNA
357	13155	25796	2.01	2.0E-51	4507798	NT	la04d06.y1 Human Pancreatic islets Homo sapiens cDNA 5' Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
1683	14427	27124	5.16	2.0E-51	AA233352.1	EST_HUMAN	zr30a05.r1 Stragene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:664880 5' similar to TR:G233226 G233226 RTVL-H PROTEIN, contains LTR7 & LTR7 repetitive element;
3716	16499	29107	1.57	2.0E-51	AI492415.1	EST_HUMAN	tr7903.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2131732 3'
4458	17194	29820	0.76	2.0E-51	AW137826.1	EST_HUMAN	U1-H-B11-adj-d-020-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2716851 3'
5352	18155	30837	0.7	2.0E-51	AI732851.1	EST_HUMAN	ob34f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE [NM2A] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
5352	18155	30838	0.7	2.0E-51	AI732851.1	EST_HUMAN	ob34f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE [NM2A] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
5925	18709	31663	3.86	2.0E-51	BE782015.1	EST_HUMAN	601470446f1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3873563 5'
7209	19894		0.61	2.0E-51	AF219927.1	NT	Homo sapiens diacylglycerol kinase iota (DGK1) gene, exon 23

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7357	20038	33116	1.06	2.0E-51	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0889), mRNA
8598	21291	34432	1.72	2.0E-51	BE601994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
8599	21291	34433	1.72	2.0E-51	BE601994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
8632	21623	34766	0.86	2.0E-51	11037084	NT	Homo sapiens disrupted in schizophrenia 1 (DISC1), mRNA
9412	22090	35261	1.45	2.0E-51	A1917078.1	EST_HUMAN	1s74a07.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2236980 3' similar to SW:TRKC_HUMAN
9503	22158	35336	5.68	2.0E-51	BE165980.1	EST_HUMAN	Q16288 NT-3 GROWTH FACTOR RECEPTOR PRECURSOR;
9519	22172	35355	0.6	2.0E-51	AB007826.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
10332	22978	36199	1.77	2.0E-51	AV682474.1	EST_HUMAN	Homo sapiens mRNA for KIAA0457 protein, partial cds
10370	23016	36232	2.67	2.0E-51	AA378559.1	EST_HUMAN	AV682474 GKB Homo sapiens cDNA clone GKBAGF05 5'
11298	18155	30837	8.52	2.0E-51	A1732851.1	EST_HUMAN	EST91298 Synovial sarcoma Homo sapiens cDNA 5' end
11298	18155	30838	8.52	2.0E-51	A1732851.1	EST_HUMAN	cb34f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
12523	24870	31017	2.1	2.0E-51	11419159	NT	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
112	12834	25571	5.74	1.0E-51	4503528	NT	cb34f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
1479	14226		20.32	1.0E-51	AV742248.1	EST_HUMAN	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
4958	17684	30284	1.92	1.0E-51	BE779039.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4), mRNA
5305	18110	30789	4.1	1.0E-51	T18862.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA
7549	20219	33322	0.94	1.0E-51	A1572532.1	EST_HUMAN	AV742248 CB Homo sapiens cDNA clone CBFBC12 5'
7803	20488	33619	0.81	1.0E-51	BF434359.1	EST_HUMAN	601464995F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3868246 5'
11783	25434		2	1.0E-51	AV760590.1	EST_HUMAN	b120561 Testis 1 Homo sapiens cDNA clone b12056
10587	23282	36520	1.39	9.0E-52	R91638.1	EST_HUMAN	1a39g02.x1 Scores_NhlhMP_u_S1 Homo sapiens cDNA clone IMAGE:2089108 3'
10587	23282	36521	1.39	9.0E-52	R91638.1	EST_HUMAN	7c9b502.x1 NCI_CGAP_OV18 Homo sapiens cDNA clone IMAGE:3844081 3' similar to TR:P87892 P87892
12301	24726		5.36	9.0E-52	AA77621.1	EST_HUMAN	PROTEASE;
148	12963	25605	9.99	8.0E-52	AA720574.1	EST_HUMAN	AV760590 MDS Homo sapiens cDNA clone MDSCB02 5'
1482	14229	26915	1.65	8.0E-52	X84900.1	NT	yq10h04.t1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:186567 5' similar to SP:YGAF_EC0LI P37339 HYPOTHETICAL PROTEIN IN GABP 3 REGION;
							yq10h04.t1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:186567 5' similar to SP:YGAF_EC0LI P37339 HYPOTHETICAL PROTEIN IN GABP 3 REGION;
							285a07.s1 Scores fetal liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR13 THR repetitive element;
							hw21g02.s1 NCI_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR13 THR repetitive element;
							H. sapiens mRNA for laminin-5, alpha3b chain

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1650	14398	27085	3.13	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
1650	14398	27086	3.13	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
3976	14398	27085	6.6	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
3976	14398	27086	6.6	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
7417	20094	33178	0.67	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
7417	20094	33179	0.67	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
8911	21602	34745	2.04	7.0E-52	W56471.1	EST_HUMAN	zc59a06.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:326578 5' similar to contains Alu repetitive element;
1184	13918		0.76	6.0E-52	BE072409.1	EST_HUMAN	QV3-BT0537-271289-049-d07 BT0537 Homo sapiens cDNA
1689	14433	27129	4.27	6.0E-52	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
5641	18436	31349	0.86	6.0E-52	AI208794.1	EST_HUMAN	q944f04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838047 3'
							tz46h04.y1 NCJ_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2291671 5' similar to SW:PGBM_MOUSE Q05793 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE
11170	23837	37119	1.84	6.0E-52	BE048172.1	EST_HUMAN	PROTEOGLYCAN CORE PROTEIN PRECURSOR;
9292	21959	35132	0.6	5.0E-52	11437365	NT	Homo sapiens FSHD region gene 1 (FRG1), mRNA
1723	14468	27165	1.32	4.0E-52	4501922	NT	Homo sapiens adenylate cyclase activating polypeptide 1 (pituitary) receptor type I (ADCYAP1R1) mRNA
1780	14521	27225	1.02	4.0E-52	4768843	NT	Homo sapiens nucleoporin 155kD (NUP155) mRNA
3906	16556	29297	0.99	4.0E-52	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5204	18012	30633	1.33	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
5204	18012	30634	1.33	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
7938	20633	33760	1.74	4.0E-52	BE622032.1	EST_HUMAN	601440887F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3915836 6'
8432	21126	34263	5.48	4.0E-52	11417035	NT	Homo sapiens hydroxyteroid (17-beta) dehydrogenase 4 (HSD17B4), mRNA
12143	24631		5.11	4.0E-52	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12627	24930		5.23	4.0E-52	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4071	16815		10.57	3.0E-52	11437042	NT	Homo sapiens hypothetical protein FLJ10675 (FLJ10675), mRNA
549	13332	25962	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
549	13332	25963	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2503	15220	27963	2.04	2.0E-52	BE207575.1	EST_HUMAN	b66b07.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030421 5' similar to gbX16483 M.musculus
2740	15446		6.03	2.0E-52	BF677892.1	EST_HUMAN	mRNA for Zfp-1 zinc finger protein (MOUSE);
4920	17648	30280	2.13	2.0E-52	AL137188.3	NT	602084710F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248891 5'
4952	17678	30287	1.29	2.0E-52	AI141802.1	EST_HUMAN	Novel human gene mapping to chromosome 20, similar to membrane transporters
4952	17678	30288	1.29	2.0E-52	AI141802.1	EST_HUMAN	qa56e05.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
5617	18413	31326	4.11	2.0E-52	AW849041.1	EST_HUMAN	qa56e05.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
6274	19047	32024	1.96	2.0E-52	11141868	NT	IL3-CT0214-231299-053-E12 CT0214 Homo sapiens cDNA
6613	19376	32390	0.99	2.0E-52	AB029004.1	NT	Homo sapiens interleukin 21 receptor (IL21R), mRNA
6843	19543	32371	1.17	2.0E-52	AI792146.1	EST_HUMAN	Homo sapiens mRNA for KIAA1081 protein, partial cds
8551	21243		9.03	2.0E-52	AF147880.1	NT	cc45d12.y6 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1608311 6'
8834	21528	34672	0.81	2.0E-52	AA778795.1	EST_HUMAN	Macaca mulatta beta-tubulin mRNA, complete cds
9379	21954		0.88	2.0E-52	4758789	NT	2f45g05.s1 Soares_fetal_liver_spleen_1NF5_S1 Homo sapiens cDNA clone IMAGE:453272 3'
10015	22663	35879	5.53	2.0E-52	5730038	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase)
10015	22663	35880	5.53	2.0E-52	5730038	NT	(NDUFS5) mRNA
11165	23832	37111	3.15	2.0E-52	AI831462.1	EST_HUMAN	Homo sapiens SET domain and mafiner transposase fusion gene (SETMAR) mRNA
11165	23832	37112	3.15	2.0E-52	AI831462.1	EST_HUMAN	Homo sapiens SET domain and mafiner transposase fusion gene (SETMAR) mRNA
11178	23845	37131	3.09	2.0E-52	AV715377	EST_HUMAN	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA
11325	24016		1.72	2.0E-52	W70260.1	EST_HUMAN	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5'
11618	24215		2.76	2.0E-52	11417990	NT	z449g12.t1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:344038 5'
11961	25408	30801	24.36	2.0E-52	AW236297.1	EST_HUMAN	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA
12350	24756		4.49	2.0E-52	AI808985.1	EST_HUMAN	xt72e07.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2700036 3' similar to contains Alu
520	13304	25637	1.96	1.0E-52	AA634445.1	EST_HUMAN	repetitive element; contains element LTR2 repetitive element
1350	14098	26773	37.84	1.0E-52	4504026	NT	wf67d05.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2360849 3' similar to TR:Q16859
2537	15252		0.9	1.0E-52	4502238	NT	Q16859 CARBOXYLTERASE
3055	15821	28465	2.67	1.0E-52	S61070.1	NT	z475h12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743879 3'
5250	18056	30884	4.35	1.0E-52	IM29426.1	NT	Homo sapiens glutamate-aminoligase (glutamine synthase) (GLUL) mRNA
6300	19073	32059	2.51	1.0E-52	U38964.1	NT	Homo sapiens arylsulfatase D (ARSD), transcript variant 1, mRNA
							pol=reverse transcriptase homolog (retroviral element) [human, endogenous retroviral element RTVL-Hp1,
							Genomic, 660 nt]
							Human P-glycoprotein (MDR1) gene, exon 4
							Human PMS2 related (hPMSR2) gene, complete cds



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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7330	20012	33090	5.31	1.0E-52	X07282.1	NT	Human aldolase C gene for fructose-1,6-bisphosphate aldolase
8364	21057		1.2	1.0E-52	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
9087	21776	34940	0.75	1.0E-52	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10476	23122		1.03	1.0E-52	AW020370.1	EST_HUMAN	df08g05.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483145 5'
10486	23132		1.39	1.0E-52	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
10665	23356	36506	1.61	1.0E-52	U48206.1	NT	Homo sapiens protein tyrosine phosphatase F1TPCAAX1 (hPTPCAAX1) mRNA, complete cds
10740	23427		2.09	1.0E-52	11426321	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type 2 (PSMB2), mRNA
3771	16823	29161	1.05	9.0E-53	4506064	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) mRNA
4359	17097	29732	1.96	9.0E-53	AF001448.1	NT	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3
12189	24860		3.18	7.0E-53	BF238465.1	EST_HUMAN	801904771F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4132793 5'
							1f44f07.x1 NCI CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2099077 3' similar to contains THR.t1
12600	25285		4.92	7.0E-53	AI421782.1	EST_HUMAN	THR repetitive element
5096	17805	30422	1.02	6.0E-53	BE295719.1	EST_HUMAN	601175776F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3530946 5'
4078	16822	29448	2.28	5.0E-53	4758543	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC) mRNA
12236	24688		1.58	5.0E-53	AW813563.1	EST_HUMAN	RC3-ST0197-151099-011-g10 ST0197 Homo sapiens cDNA
48	12877	25502	2.76	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
48	12877	25503	2.76	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
4771	17503	30125	1.03	4.0E-53	7705414	NT	Homo sapiens hook1 protein (HOOK1), mRNA
9316	21953		0.66	4.0E-53	AI613037.1	EST_HUMAN	Y08h04.x1 NCI CGAP_U13 Homo sapiens cDNA clone IMAGE:2278327 3'
9686	22308		0.67	4.0E-53	F13080.1	EST_HUMAN	HSC3ID041 normalized infant brain cDNA Homo sapiens cDNA clone c-3id04
11175	23842	37126	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
11175	23842	37127	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
							Homo sapiens DNA, DLEC1 to ORC1L4 gene region, section 1/2 (DLEC1, ORC1L3, ORC1L4 genes, complete cds)
2685	15375	28114	1.77	3.0E-53	AB026898.1	NT	IL2-UM0081-240300-055-D03 UM0081 Homo sapiens cDNA
4549	17284	29914	0.74	3.0E-53	AW803563.1	EST_HUMAN	Homo sapiens 26S proteasome subunit 9 mRNA, complete cds
5339	18142	30503	0.7	3.0E-53	AF007212.1	NT	Homo sapiens MIL-1 protein (MIL-1), mRNA
5538	18336	31243	0.82	3.0E-53	11526297	NT	Homo sapiens MIL-1 protein (MIL-1), mRNA
6101	18878	31846	0.95	3.0E-53	BE160025.1	EST_HUMAN	QV1-HT0412-280300-123-c04 HT0412 Homo sapiens cDNA
6998	19690	32740	1.04	3.0E-53	Y10388.3	NT	H. sapiens graf gene
6998	19690	32741	1.04	3.0E-53	Y10388.3	NT	H. sapiens graf gene
8203	20897	34034	12.52	3.0E-53	S72043.1	NT	GIF-growth inhibitory factor [human, brain, Genomic, 2015 nt]
8758	21450	34597	0.65	3.0E-53	10835090	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
8955	21846		8.41	3.0E-53	5901953	NT	Homo sapiens FOFR1 oncogene partner (FOP), mRNA
11826	24410	37746	2.78	3.0E-53	8923599	NT	Homo sapiens hypothetical protein FLJ20644 (FLJ20644), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
445	13231		5.82	2.0E-53	AA366556.1	EST_HUMAN	EST177625 Pancreas tumor III Homo sapiens cDNA 5' end
2327	15052	27788	2.79	2.0E-53	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2538	15253		8.73	2.0E-53	4502316	NT	Homo sapiens ATPase, H <sup>+</sup> -transporting, lysosomal (vacuolar proton pump) 31kD; Vacuolar proton-ATPase, subunit E; V-ATPase, subunit E (ATP6E), mRNA
2729	15438	28172	1.46	2.0E-53	4757916	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
2729	15438	28173	1.46	2.0E-53	4757916	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
3239	16001	28651	3.72	2.0E-53	AF083822.1	NT	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 6
4036	16781	28411	2.53	2.0E-53	M61873.1	NT	Human Krueppel-related DNA-binding protein (TF34) gene, partial cds
5340	18143	30804	2.87	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA
5340	18143	30805	2.87	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA
7770	20488	33580	1	2.0E-53	AW975588.1	EST_HUMAN	EST1387707 MAGE resequences, MAGN Homo sapiens cDNA
9308	21975		3.82	2.0E-53	AW245676.1	EST_HUMAN	2822865.9prime NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2822865 5'
1428	14175	28860	1.51	1.0E-53	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region, segment 2/2
3404	16182	28813	1.08	1.0E-53	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
6593	19358	32370	1.52	1.0E-53	BF364201.1	EST_HUMAN	GM4-NN1028-150800-543-e02 NN1028 Homo sapiens cDNA
7147	19834	32903	0.88	1.0E-53	BE012071.1	EST_HUMAN	RC5-BN1058-270400-031-D01 BN1058 Homo sapiens cDNA
7836	20531	33658	0.54	1.0E-53	AA249072.1	EST_HUMAN	19571.seq.F Human fetal heart; Lambda ZAP Express Homo sapiens cDNA 5'
8887	21877	34828	5.91	1.0E-53	X79536.1	NT	H.sapiens mRNA for hnRNPcore protein A1
11833	24417	37757	1.41	1.0E-53	X98411.1	NT	H.sapiens mRNA for myosin-IE
11833	24417	37758	1.41	1.0E-53	X98411.1	NT	H.sapiens mRNA for myosin-IE
11855	24507	37255	2.29	1.0E-53	AW245422.1	EST_HUMAN	2822843.3prime NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2822843 3'
5219	25083	30651	6.16	9.0E-54	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
202	13015	25655	2.4	8.0E-54	BE386785.1	EST_HUMAN	601272863F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614031 5'
1827	14586	27278	1.77	8.0E-54	4504610	NT	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA
5845	18633	31568	28.87	8.0E-54	6005700	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
376	13200	25845	1.27	7.0E-54	AA812837.1	EST_HUMAN	air76c12.s1 Soares_testis_NHT Homo sapiens cDNA clone 1377048 3' similar to contains MER30.k3 MER30 repetitive element;
1822	14581	27273	1.65	7.0E-54	Y16845.1	NT	Homo sapiens mRNA for monocytic chemotactic protein-2
2202	14930	27687	6.38	7.0E-54	N27177.1	EST_HUMAN	yw68d12.s1 Soares_placenta_869weeks_2NbfP808W Homo sapiens cDNA clone IMAGE:257389 3' similar to contains LTR7.b3 LTR7 repetitive element;

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10028	22678	35892	2.08	7.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA
11047	23717	36986	1.74	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11047	23717	36987	1.74	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11261	23923		4.35	7.0E-54	AI160189.1	EST_HUMAN	qb87g03.x1 Soares_fetal_heart_NbHH10W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.11 OFR repetitive element ;
11811	24400	37736	1.49	7.0E-54	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11811	24400	37737	1.49	7.0E-54	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
22	12850	25465	1.41	6.0E-54	AB003618.1	NT	Homo sapiens DNA for MICB, exon 4, 5 and partial cds
376	13201	25846	6.83	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
376	13201	25847	6.83	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3277	16038	28688	0.77	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3686	16734	29368	1.91	6.0E-54	4502872	EST_HUMAN	Homo sapiens chloride channel 6 (CLCN6) mRNA
4429	17166	29794	0.86	6.0E-54	AV754746.1	EST_HUMAN	AV754746 TP Homo sapiens cDNA clone TPGAAC10 5'
4792	17523	30145	1.78	6.0E-54	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
4819	17550		1.15	6.0E-54	Y09846.1	NT	H. sapiens shc pseudogene, p66 isoform
11432	23199	36430	1.51	6.0E-54	AW813567.1	EST_HUMAN	RC3-ST0197-151099-011-008 ST0197 Homo sapiens cDNA
2146	14876	27611	3.78	5.0E-54	P51523	SWISSPROT	ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPF2)
178	12890		13.34	4.0E-54	AF110103.1	NT	Tupala belangeri beta-actin mRNA, partial cds
936	13703	26368	57.5	4.0E-54	AA306764.1	EST_HUMAN	EST1177696 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldehyde-3-phosphate dehydrogenase
1798	14538	27248	3.22	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
1798	14538	27249	3.22	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
3199	15962		1	4.0E-54	AI935086.1	EST_HUMAN	wid26d11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2329289 3' similar to TR:O02711
92	12918	25555	4.47	3.0E-54	AA313487.1	EST_HUMAN	O02711 PRO-POL-DUTPASE POLYPROTEIN ;
1565	14312		0.91	3.0E-54	AW515742.1	EST_HUMAN	EST1165371 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
2574	15288	28025	0.96	3.0E-54	AL110383.1	EST_HUMAN	hd87g08.x1 NCI_CGAP_GC08 Homo sapiens cDNA clone IMAGE:2816542 3'
2630	15342		1.34	3.0E-54	AI908757.1	EST_HUMAN	DKFZp434E0731_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E0731 5'
5814	18603	31531	1.74	3.0E-54	4502434	NT	IL-BT189-190399-007 BT189 Homo sapiens cDNA
7288	19971	33048	2.1	3.0E-54	AA844061.1	EST_HUMAN	Homo sapiens BMX non-receptor tyrosine kinase (BMX) mRNA
7288	19971	33049	2.1	3.0E-54	AA844061.1	EST_HUMAN	ab2608.st Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'
7288	19971	33049	2.1	3.0E-54	AA844061.1	EST_HUMAN	ab2608.st Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'

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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10949	23827		1.63	3.0E-54	11434806	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 5 (GOLGA5), mRNA
11024	23696	36959	4.93	3.0E-54	BF345600.1	EST_HUMAN	602019408F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4155121 5'
11341	24031	37335	3.26	3.0E-54	AA393362.1	EST_HUMAN	z70112.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727727 5' similar to TR:G191315
12068	24573	31119	2.98	3.0E-54	AW954559.1	EST_HUMAN	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN ;
12097	25373		2.51	3.0E-54	AW748965.1	EST_HUMAN	EST366829 MAGe sequences, MAGC Homo sapiens cDNA
827	13408	26040	8.88	2.0E-54	5031900	NT	RC1-BT0313-131159-011-509 BT0313 Homo sapiens cDNA
1344	14092	28767	0.96	2.0E-54	4507164	NT	Homo sapiens killer cell lectin-like receptor subfamily G, member 1 (KLRG1), mRNA
1539	14286	26972	1.37	2.0E-54	AA655008.1	EST_HUMAN	Homo sapiens nuclear antigen Sp100 (SP100) mRNA
2541	15255	27995	1.22	2.0E-54	AW163175.1	EST_HUMAN	n78a09.s1 NCI_CGAP_P3 Homo sapiens cDNA clone IMAGE:1204600 similar to contains element L1 repetitive element ;
2608	16320	28062	1.65	2.0E-54	AL163210.2	NT	au92g03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783764 5' similar to SW:CUL1_HUMAN Q13616 CULLIN HOMOLOG 1 ;
2896	15663	28311	1.52	2.0E-54	AW057524.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
3311	18071	28721	1.18	2.0E-54	AJ278314.1	NT	wy60b12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2652927 3' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING ;
3398	18292		3.2	2.0E-54	AA52925.1	EST_HUMAN	Homo sapiens mRNA for phospholipase C-beta-1b (PLCB1) gene
4181	18921		2.06	2.0E-54	4502642	NT	nj45g09.s1 NCI_CGAP_P3 Homo sapiens cDNA clone IMAGE:995488 similar to gb:X53777 60S RIBOSOMAL PROTEIN L23 (HUMAN);
4825	17556	30178	1.02	2.0E-54	7708446	NT	Homo sapiens chaperonin containing 1-complex subunit 6 (CCT6) mRNA
5368	18188	30880	1.64	2.0E-54	4759089	NT	Homo sapiens peptidylarginine deiminase type III (LOC51702), mRNA
5518	18314	31216	1.2	2.0E-54	BE047864.1	EST_HUMAN	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 14 (SCYA14) mRNA
5675	18469	31385	5.04	2.0E-54	11426657	NT	tz43c1.y1 NCI_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2281348 5'
5771	18582	31489	13.99	2.0E-54	AB046811.1	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
5771	18562	31490	13.99	2.0E-54	AB046811.1	NT	Homo sapiens mRNA for KIAA1561 protein, partial cds
8559	19324	32331	0.88	2.0E-54	AF008916.1	NT	Homo sapiens mRNA for KIAA1561 protein, partial cds
8713	19628	32672	0.65	2.0E-54	AB023212.1	NT	Homo sapiens EV15 homolog mRNA, complete cds
8713	19628	32673	0.65	2.0E-54	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
7023	19715	32772	8.8	2.0E-54	11426544	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
9529	22182	35366	4.11	2.0E-54	AB001025.1	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1), mRNA
9909	22558	35763	0.79	2.0E-54	11429127	NT	Homo sapiens mRNA for brain dynadine receptor, complete cds
10021	22669	35885	1.01	2.0E-54	11416762	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10021	22669	35886	1.01	2.0E-54	11416762	NT	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA

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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10947	19324	32331	1.57	2.0E-54	AF008915.1	NT	Homo sapiens EVI5 homolog mRNA, complete cds
11727	24321		2.98	2.0E-54	7687454	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
4432	17168		1.22	1.0E-54	BF315418.1	EST_HUMAN	601898230F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128535 5'
10153	22801	36018	0.52	1.0E-54	AA412409.1	EST_HUMAN	Zr10e09.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731464 5'
10153	22801	36018	0.52	1.0E-54	AA412409.1	EST_HUMAN	Zr10e09.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731464 5'
12710	24986		2.17	1.0E-54	AU077341.1	EST_HUMAN	AU077341 Sugano cDNA library Homo sapiens cDNA clone Zr6C880 similar to 5'-end region of Human gamma-glutamyl transpeptidase mRNA, 5 end
10257	22905	36115	0.94	9.0E-55	BE081469.1	EST_HUMAN	QV2-BT0635-160400-143-H12 BT0635 Homo sapiens cDNA
1292	14041		1.09	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1295	14044		2.63	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
11151	23818		1.67	8.0E-55	AW409714.1	EST_HUMAN	fr02a02.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960907 5'
1059	13817	26479	0.77	7.0E-55	R09346.1	EST_HUMAN	Yf2604.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:127998 5' similar to SP:C581_BOVIN P10897 CYTOCHROME ;
8703	21395		0.8	7.0E-55	AW103839.1	EST_HUMAN	xd76c02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603522 3' similar to TR:O60365
9090	21769	34932	1.26	7.0E-55	AA89581.1	EST_HUMAN	O60365 FOS39554.1 ;
9115	21803	34968	2.16	7.0E-55	AU139909.1	EST_HUMAN	ak28a11.st Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1407260 3'
11171	23838	37120	10.32	7.0E-55	A1561056.1	EST_HUMAN	AU139909 PLAGE1 Homo sapiens cDNA clone PLACE1011578 5'
11171	23838	37121	10.32	7.0E-55	A1561056.1	EST_HUMAN	tg29f09.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2210249 3'
12682	25303		2.6	7.0E-55	H23396.1	EST_HUMAN	tg29f09.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2210249 3'
11498	24089	37412	2.45	6.0E-55	AB040934.1	NT	ym57g07.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:52444 5'
1763	14505	27205	1.19	5.0E-55	AA704971.1	EST_HUMAN	Homo sapiens mRNA for KIAA1501 protein, partial cds
1763	14505	27206	1.19	5.0E-55	AA704971.1	EST_HUMAN	Zf95509.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462617 3'
4720	17452	30086	1.81	5.0E-55	AW206021.1	EST_HUMAN	Zf95509.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462617 3'
6446	19214	32211	1.65	5.0E-55	4502240	NT	UIH-B11-aty-g-09-o-UI.st NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2723536 3'
6446	19214	32212	1.65	5.0E-55	4502240	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6588	25094	32340	1.34	5.0E-55	4505952	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6588	25094	32341	1.34	5.0E-55	4505952	NT	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
6937	19872	32718	0.93	5.0E-55	7382477	NT	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
7195	19881	32955	0.7	5.0E-55	11434422	NT	Homo sapiens Rho GTPase activating protein 6 (RHGAP6), transcript variant 5, mRNA
7893	20588	33718	0.72	5.0E-55	11526481	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA
8942	21633	34777	3.63	5.0E-55	4506302	NT	Homo sapiens BCL2-associated atlanogene (BAG1), mRNA
9219	21898		1.75	5.0E-55	BE064386.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA) mRNA
9937	22585	35786	1.77	5.0E-55	AB014511.1	NT	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
							Homo sapiens mRNA for KIAA0611 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9937	22596	35787	1.77	6.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds
10122	22770	35984	2.48	5.0E-55	5453765	NT	Homo sapiens nei (chicken)-like 2 (NELL2), mRNA
12137	24828		2.73	5.0E-56	11417972	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
657	13434	26075	65.4	4.0E-55	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1) mRNA
1421	14188	26853	1.78	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1421	14188	26854	1.78	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1604	14280		1.7	4.0E-55	BF081411.1	EST_HUMAN	7152b10.x1 Soares_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3390043 3' similar to contains L1.13 L1 repetitive element;
2019	14754	27482	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2019	14754	27483	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2079	14811	27542	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA
2079	14811	27543	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA
2308	15033	27771	2.29	4.0E-55	4507794	NT	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA
2596	15310		1.21	4.0E-55	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8242	20938		8.37	4.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11194	23859		2.3	4.0E-55	W28189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12057	24574		3.05	4.0E-55	BF303941.1	EST_HUMAN	601886575F2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4120338 5'
11998	24598		1.5	3.0E-55	BE178519.1	EST_HUMAN	PM1-HT0603-090300-001-g08 HT0603 Homo sapiens cDNA
12721	24993		1.85	3.0E-55	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
386	13184	25807	1.98	2.0E-55	X57147.1	NT	Human endogenous retrovirus pH8.1 (ERV9)
538	13321		1.13	2.0E-55	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
634	13413	26049	13.79	2.0E-55	4507298	NT	Homo sapiens syntaxin-binding protein 1 (STXBP1) mRNA, and translated products
4723	17455	30090	2.91	2.0E-55	BE176986.1	EST_HUMAN	CM1-HT0876-150800-357-g03 HT0876 Homo sapiens cDNA
7403	25113	33162	0.78	2.0E-55	AW501988.1	EST_HUMAN	ULHF-BNO-aka-f-06-0-JLr1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078275 5'
8963	21654	34804	0.52	2.0E-55	BF224452.1	EST_HUMAN	ht76108.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
8963	21654	34805	0.52	2.0E-55	BF224452.1	EST_HUMAN	ht76108.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
							am98105.s1 Siralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684185 3' similar to contains THR.L2 THR repetitive element;
9058	21747		6.23	2.0E-55	A1002836.1	EST_HUMAN	QVQ-BN0147-280400-213-g06 BN0147 Homo sapiens cDNA
9140	21828		0.72	2.0E-55	BE007959.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
10870	23650	36798	1.95	2.0E-55	AU119344.1	EST_HUMAN	Homo sapiens mannose-6-phosphate receptor (cation dependent) (M6PR) mRNA
95	12821	25558	3.01	1.0E-55	4505060	NT	
184	12997	25636	8.22	1.0E-55	U09823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabelia2) mRNA, complete cds
1127	13883	26543	3.53	1.0E-55	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1943	14678	27391	1.58	1.0E-55	BE277861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867027 5'
1943	14678	27392	1.58	1.0E-55	BE277861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867027 5'
2324	15049		2.48	1.0E-55	5803174	NT	Homo sapiens SMA3 (SMA3), mRNA
2338	15528	27799	1.17	1.0E-55	AF000990.1	NT	Homo sapiens testis-specific Testis Transcript Y1 (TTY1) mRNA, partial cds
2521	15237	27876	9.05	1.0E-55	X13111.1	NT	Human mRNA for HLA-A11E, a MHC class I molecule (major histocompatibility complex)
2559	15273	28009	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
2559	15273	28010	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
2817	15328	28071	1.72	1.0E-55	L54057.1	NT	Homo sapiens CLP mRNA, partial cds
3970	16719	29353	4.28	1.0E-55	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
4262	17003	29635	1.26	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4682	17416		1.02	1.0E-55	N77281.1	EST_HUMAN	y44g03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245620 5'
5410	18209	30817	0.97	1.0E-55	AF119856.1	NT	Homo sapiens PRO1851 mRNA, complete cds
6178	18955	31929	6.82	1.0E-55	11433046	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
6178	18955	31930	6.82	1.0E-55	11433046	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
7888	20583	33712	1.84	1.0E-55	11432894	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7888	20583	33713	1.84	1.0E-55	11432894	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7980	20675	33769	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
7980	20675	33800	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
10829	23511	36751	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
10829	23511	36752	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11425	23192	36423	2.53	1.0E-55	U50950.1	NT	Human infant brain unknown product mRNA, complete cds
11444	23211	36442	1.5	1.0E-55	T10045.1	EST_HUMAN	seq1575 b4HB3MA C06-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F161 5' similar to similar
11569	24188	37482	2.35	1.0E-55	10567821	NT	to Chinese Hamster DHFR-coamplified protein mRNA
7285	19949	33026	1.83	9.0E-56	BE378074.1	EST_HUMAN	Homo sapiens DNA-binding protein (LOC56242), mRNA
2737	15444	28182	5.32	7.0E-56	H19834.1	EST_HUMAN	601237702F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609562 5'
7540	20210	33309	1.67	7.0E-56	AW361213.1	EST_HUMAN	THR repetitive element
7540	20210	33310	1.67	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231099-013-b07 CT0252 Homo sapiens cDNA
1687	14431	27127	1.78	5.0E-56	AW99712.1	EST_HUMAN	RC1-CT0252-231099-013-b07 CT0252 Homo sapiens cDNA
9059	21748	34906	0.86	5.0E-56	AW015507.1	EST_HUMAN	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA
10286	22834		1.61	5.0E-56	W28189.1	EST_HUMAN	UIH-Biop-aua-e-05-0-UI.s1 NCI-LOGAP Sub2 Homo sapiens cDNA clone IMAGE:2710544 3'
12220	25359	30610	2	5.0E-56	H55099.1	EST_HUMAN	43c6 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
26	12854	25489	8.58	4.0E-56	AF141349.1	NT	CHR220038 Chromosome 22 exon Homo sapiens cDNA clone C22_55 5'
							Homo sapiens beta-tubulin mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
26	12854	25470	8.58	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
2173	14902		2.68	4.0E-56	BF207586.1	EST_HUMAN	601862059F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4081551 5'
2712	15419	28157	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2712	15419	28158	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2815	13297	25929	3.49	4.0E-56	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2836	15331	28074	1.48	4.0E-56	AI632488.1	EST_HUMAN	W60908.X1 NCL_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA
2836	15331	28075	1.48	4.0E-56	AI632488.1	EST_HUMAN	P27119 ORNITHINE DECARBOXYLASE
6164	18941	31812	6.01	4.0E-56	AF217508.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
6164	18941	31813	6.01	4.0E-56	AF217508.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10403	23049	36266	2.02	4.0E-56	AF043349.1	NT	Homo sapiens lymphocyte-specific protein 1 (LSP1) gene, LSP1-7 allele, partial cds
10841	23523	36764	8.88	4.0E-56	AI498066.1	EST_HUMAN	U65512.X1 NCL_CGAP_Brm25 Homo sapiens cDNA clone IMAGE:2163046 3'
10841	23523	36765	8.88	4.0E-56	AI498066.1	EST_HUMAN	U65512.X1 NCL_CGAP_Brm25 Homo sapiens cDNA clone IMAGE:2163046 3'
1319	14068	28742	4.17	3.0E-56	8924029	NT	Homo sapiens hypothetical protein PRO1304 (PRO1304), mRNA
3122	15887	28527	1.54	3.0E-56	AA325826.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3122	15887	28528	1.54	3.0E-56	AA325826.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3815	16587	29728	1.61	3.0E-56	AF055066.1	NT	Homo sapiens MHC class 1 region
4355	17093	29728	1.43	3.0E-56	7697042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
4380	17127	29759	4.27	3.0E-56	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
4534	17269	29902	2.34	3.0E-56	5902085	NT	Homo sapiens superkiller viral-like activity 2 (S_cerevisiae homolog)-like (SKIV2L), mRNA
5598	18393	31302	2.12	3.0E-56	4759163	NT	Homo sapiens spar/osteonectin, cwcw and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
5598	18393	31303	2.12	3.0E-56	4759163	NT	Homo sapiens spar/osteonectin, cwcw and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
6775	19519	32547	7.03	3.0E-56	11421124	NT	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), mRNA
7223	19908	32981	1.15	3.0E-56	4504970	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
7223	19908	32982	1.15	3.0E-56	4504970	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
8715	21407	34550	4.68	3.0E-56	11418704	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
9713	22364	35562	0.85	3.0E-56	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10378	23026	36240	1.38	3.0E-56	11434956	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10642	23333	36571	1.71	3.0E-56	AB042556.1	NT	Homo sapiens mRNA, similar to rat myomegalin, complete cds
11284	23845	37239	6.37	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA



Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11284	23945	37240	6.37	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
11673	24288	37590	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
11673	24288	37591	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
12095	24597	31083	1.52	3.0E-56	11434878	NT	Homo sapiens caveolin 3 (CAV3), mRNA
12095	24597	31084	1.52	3.0E-56	11434878	NT	Homo sapiens caveolin 3 (CAV3), mRNA
511	13295		1.7	2.0E-56	AA199818.1	EST_HUMAN	z652a0.8.x1 Stratagene neuroepithelium (#637231) Homo sapiens cDNA clone IMAGE:645208 3'
716	15550	26141	1.05	2.0E-56	BE084386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
716	15550	26142	1.05	2.0E-56	BE084386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
2987	15753	28396	1.18	2.0E-56	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3523	16279	28934	1.64	2.0E-56	AV703184.1	EST_HUMAN	AV703184 ADB Homo sapiens cDNA clone ADBCFG10 5'
6990	19683	32731	1.47	2.0E-56	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR), mRNA
959	13724		1.84	1.0E-56	AF190830.1	NT	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
3664	16417	29056	2.15	1.0E-56	AW598833.1	EST_HUMAN	hg23c11.x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2946452 3'
3664	16417	29057	2.15	1.0E-56	AW598833.1	EST_HUMAN	hg23c11.x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2946452 3'
4972	17696	30303	0.99	1.0E-56	AI905162.1	EST_HUMAN	QV-BT077-130199-079 BT077 Homo sapiens cDNA
5118	17836	30453	0.97	1.0E-56	6881002	NT	Mus musculus cytoplasmic polyadenylation element binding protein (Cpeb), mRNA
6724	19558	32599	0.57	1.0E-56	AW609520.1	EST_HUMAN	MR3-ST0203-180100-208-h02 ST0203 Homo sapiens cDNA
9855	22505		0.59	1.0E-56	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
9948	22596	35900	1.71	1.0E-56	AW845987.1	EST_HUMAN	RC2-CT0163-220989-001-E02 CT0163 Homo sapiens cDNA
611	13389		2.52	9.0E-57	AW890885.1	EST_HUMAN	QV0-OT0033-070300-192-h03 OT0033 Homo sapiens cDNA
4180	16920	29548	1.14	9.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4180	16920	29549	1.14	9.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
11183	23848	37134	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11183	23848	37135	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11508	24107	37420	1.48	9.0E-57	AB020981.1	NT	Homo sapiens mRNA for cyclin B2, complete cds
290	13096	25738	3.01	8.0E-57	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-f05 ST0234 Homo sapiens cDNA
864	13633	26303	6.36	8.0E-57	AW264599.1	EST_HUMAN	x05d10.x1 NCL CGAP_Bin63 Homo sapiens cDNA clone IMAGE:2759251 3' similar to gb:U05675 INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (HUMAN);
1809	14549	27264	1.51	8.0E-57	AA486109.1	EST_HUMAN	z55b12.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:757151 5'
3376	16135	28791	0.98	8.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
3376	16135	28792	0.98	8.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4852	17582	30205	1.3	8.0E-57	4657630	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRI4A) mRNA
5161	25276	30728	3.29	8.0E-57	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
6306	19078	32063	1.85	8.0E-57	AB020705.1	NT	Homo sapiens mRNA for KIAA0898 protein, partial cds

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Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6372	19141	32137	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
6372	19141	32138	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7349	20300	33107	0.84	8.0E-57	7662283	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7848	20312	33423	1.7	8.0E-57	AB020844.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
7848	20312	33424	1.7	8.0E-57	AB020844.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
11460	17889	30487	3.29	8.0E-57	8023349	NT	Homo sapiens hypothetical protein FLJ20371, mRNA
12459	24828	31028	2.74	8.0E-57	11645732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12473	24828	31028	1.69	8.0E-57	11645732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12820	25060	31028	2.07	8.0E-57	AB037793.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2639	16350	28093	1.71	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SNAP), mRNA
2639	16350	28094	1.71	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SNAP), mRNA
3244	16006	28655	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3244	16006	28656	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3265	16027	28677	1.08	7.0E-57	6005979	NT	Homo sapiens Kruppel-like factor 8 (KLF8), mRNA
3658	16608	29246	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
3658	16608	29247	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
4398	17135		0.95	7.0E-57	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHT) gene, exon 5
4730	17462	30089	0.95	7.0E-57	U11058.2	NT	Homo sapiens large conductance calcium- and voltage-dependent potassium channel alpha subunit (MaxK) mRNA, complete cds
12785	26310		2.63	5.0E-57	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
3738	16489	29125	1.67	4.0E-57	AB026998.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
788	13558	28220	0.78	3.0E-57	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
1308	14056		16.24	3.0E-57	AA230278.1	EST_HUMAN	nc1307.s1 NCL_CGAP_P11 Homo sapiens cDNA clone IMAGE:1008037 similar to SW:RS10_HUMAN
2380	18111	27848	2.99	3.0E-57	AA348335.1	EST_HUMAN	P46783.40S RIBOSOMAL PROTEIN S10 ;
2707	15414	28151	0.95	3.0E-57	BE676622.1	EST_HUMAN	EST54770 Hippocampus II Homo sapiens cDNA clone IMAGE:3296443 3' similar to WP:Y47H9C.2 CE20283 ;
2707	15414	28152	0.95	3.0E-57	BE676622.1	EST_HUMAN	733b10.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3296443 3' similar to WP:Y47H9C.2 CE20283 ;
3550	16305	28955	1.74	3.0E-57	AF232708.1	NT	733b10.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3296443 3' similar to WP:Y47H9C.2 CE20283 ;
3685	18438		62.34	3.0E-57	AW853964.1	EST_HUMAN	Homo sapiens cell-line tsA201a chloride ion current inducer protein [(Cin) gene, complete cds
							RC3-CT0254-110300-027-q10 CT0254 Homo sapiens cDNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5939	18721	31680	1.24	3.0E-57	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
6033	18813	31773	3.23	3.0E-57	BE79637.1	EST_HUMAN	601569996r1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
8044	20738	33871	3.77	3.0E-57	W28130.1	EST_HUMAN	426 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
8070	20764	33892	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8070	20764	33893	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8179	20873	34008	0.7	3.0E-57	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
8328	21021	34157	0.73	3.0E-57	J05262.1	NT	Human farnesyl pyrophosphate synthetase mRNA, complete cds
8757	21449	34596	4.17	3.0E-57	AU117689.1	EST_HUMAN	AU117689 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
9149	21880	35047	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
9149	21880	35048	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
10825	23508	36747	2.85	3.0E-57	AW248374.1	EST_HUMAN	2820473.5p1me NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820473 5'
12101	25381	30616	8.38	3.0E-57	W23871.1	EST_HUMAN	zb45d11.1 Soares_fetal_Jung_NbHL19W Homo sapiens cDNA clone IMAGE:306549 5'
12480	25281		2.32	3.0E-57	AW176575.1	EST_HUMAN	RCO-HT0112-280999-001-C06 HT0112 Homo sapiens cDNA
12823	24928	31010	1.48	3.0E-57	AJ003949.1	EST_HUMAN	AJ003949 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPIp10-1L1
1487	14234	26919	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1487	14234	26920	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3432	16188		1.24	2.0E-57	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3910	16660	28301	0.79	2.0E-57	BE073264.1	EST_HUMAN	MRO-BT0551-060300-103-b03 BT0551 Homo sapiens cDNA
4474	17209	29834	6.73	2.0E-57	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
5582	18379		1.84	2.0E-57	AA016131.1	EST_HUMAN	ze31c05.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.13 L1 repetitive element
5943	18725		33.81	2.0E-57	BF115266.1	EST_HUMAN	7n80f04.x1 NCL_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570966 3' similar to contains TAR1.H
6067	18848	31810	0.66	2.0E-57	11431281	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA
8529	21221	34363	1.08	2.0E-57	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
9746	22397	35602	1.86	2.0E-57	AF057722.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exons 3 and 4
10525	23171	36398	0.49	2.0E-57	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
10525	23171	36399	0.49	2.0E-57	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11238	23901	37189	2.42	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11238	23901	37190	2.42	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
8593	21285		3.62	1.0E-57	BE043031.1	EST_HUMAN	hc32a08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3039062 3' similar to TR:O00246 O00246
12249	24696		5.08	1.0E-57	AW470791.1	EST_HUMAN	HYPOTHETICAL 9.3 KD PROTEIN ; hc33a08.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR repetitive element ;

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5501	18387	31297	0.99	8.0E-58	AA297847.1	EST_HUMAN	EST11348 Uterus Homo sapiens cDNA 5' end
12516	24865	31015	1.55	9.0E-58	BE395091.1	EST_HUMAN	601308465F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
575	13355		1.78	8.0E-58	BE888715.1	EST_HUMAN	601445948F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850211 5'
639	13418	26055	4.18	8.0E-58	AI798376.1	EST_HUMAN	tr34607.x1 NCI_CGAP_OV23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN;
639	13418	26055	4.18	8.0E-58	AI798376.1	EST_HUMAN	tr34607.x1 NCI_CGAP_OV23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN;
1848	14887	27301	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
1849	14587	27302	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
2874	15740		2.32	8.0E-58	7706132	NT	Homo sapiens DHHC1 protein (LOC51304), mRNA
10762	23448		5.87	7.0E-58	5174542	NT	Homo sapiens MAD5 box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B) mRNA
10847	23529	36773	3.6	7.0E-58	AW504109.1	EST_HUMAN	UI-HF-BNO-all-g-10-Q-Ul.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079887 5'
10847	23529	36774	3.6	7.0E-58	AW504109.1	EST_HUMAN	UI-HF-BNO-all-g-10-Q-Ul.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079887 5'
2251	14979	27718	1.02	6.0E-58	BE395091.1	EST_HUMAN	601308465F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
2375	15097	27837	3.78	6.0E-58	AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
2802	15688	28316	1.2	6.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
2902	15688	28317	1.2	6.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
6078	18857	31824	1.01	6.0E-58	AF106911.1	NT	Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete cds
10208	22856	36072	0.79	6.0E-58	11434748	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
12347	24754		1.58	6.0E-58	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
283	13089	25740	3.79	5.0E-58	4507334	NT	Homo sapiens synaptobrevin 1 (SYN1), mRNA
694	13469	26116	5.41	5.0E-58	BE783984.1	EST_HUMAN	RC4-NT0057-160600-018-005 NT0057 Homo sapiens cDNA
1172	13928	26589	2.96	5.0E-58	AW787948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1172	13928	26590	2.96	5.0E-58	AW787948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1173	13928	26589	2.78	5.0E-58	AW787948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1173	13928	26590	2.76	5.0E-58	AW787948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
3317	16077	28727	4.32	5.0E-58	AA988183.1	EST_HUMAN	tr98e07.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1603808 3'
4228	16970	29694	0.92	5.0E-58	AI636745.1	EST_HUMAN	tr98e07.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2238468 3' similar to SW:PRD2_ACACA
5541	18338		2.32	5.0E-58	11496282	NT	P19984 PROFILIN II;
6085	18663	31829	6.86	5.0E-58	H23072.1	EST_HUMAN	Homo sapiens placenta-specific 1 (PLAC1), mRNA
							ym51h07.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:52071 5'

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6301	19074	32060	0.95	5.0E-58	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6379	19148	32147	1.61	5.0E-58	11421330	NT	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
6680	19597	32635	0.68	5.0E-58	AF051334.1	NT	Homo sapiens ribirin (NBS) mRNA, complete cds
6680	19597	32636	0.68	5.0E-58	AF051334.1	NT	Homo sapiens ribirin (NBS) mRNA, complete cds
7008	19698	32762	0.73	5.0E-58	4885400	NT	Homo sapiens holochochrome c synthase (cytochrome c heme-lyase) (HCCS) mRNA
7989	20564	33691	7.69	5.0E-58	8922693	NT	Homo sapiens hypothelial protein FLJ10826 (FLJ10826), mRNA
8251	20945	34083	0.7	5.0E-58	AB048937.1	NT	Homo sapiens mRNA for KIAA1617 protein, partial cds
9239	21918	35089	0.68	5.0E-58	5231227	NT	Homo sapiens ribonuclease 6 precursor (RNA5E6PL) mRNA
9239	21918	35090	0.68	5.0E-58	5231227	NT	Homo sapiens ribonuclease 6 precursor (RNA5E6PL) mRNA
9757	22408	35614	0.88	5.0E-58	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
10023	22671	35887	1.78	5.0E-58	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10300	22947	36161	0.83	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10300	22947	36162	0.83	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
11819	24405	37740	2.69	5.0E-58	11431079	NT	Homo sapiens chimerin (chimerin) 1 (CHN1), mRNA
12071	25305		1.81	5.0E-58	11526283	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (OECR1), mRNA
12512	25330		1.5	5.0E-58	11426423	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
12732	26001		2.67	5.0E-58	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
364	13162	25804	4.5	4.0E-58	4502302	NT	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (digomycin sensitivity conferring protein) (ATP5O) mRNA
778	13551	26212	0.88	4.0E-58	4504634	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
1452	14199	26883	1.09	4.0E-58	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2637	15349	28091	1.7	4.0E-58	U36251.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 3
3319	16079	28729	1.03	4.0E-58	D16470.1	NT	Human mRNA, Xq terminal portion
3723	19476	29113	1.25	4.0E-58	5031660	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
11315	23974	37275	7.06	4.0E-58	11424059	NT	Homo sapiens E1B-55kDa-associated protein 5 (E1B-AP5), mRNA
328	13127		2.57	3.0E-58	R17879.1	EST_HUMAN	y910a02.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31693 5'
1368	14116	26791	2.36	3.0E-58	4758981	EST_HUMAN	Homo sapiens peptide YY (PYY) mRNA
3174	15937	28585	2.78	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4309943 5'
3174	15937	28586	2.78	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'
6167	18944	31915	0.63	3.0E-58	BE089509.1	EST_HUMAN	QV0-B10702-170400-194-099 BT0702 Homo sapiens cDNA
6352	19122	32114	1.43	3.0E-58	F07056.1	EST_HUMAN	HSCIT G081 normalized infant brain cDNA Homo sapiens cDNA clone c-11g08
6544	19309	32314	1.4	3.0E-58	AV712977.1	EST_HUMAN	AV712977 DCA Homo sapiens cDNA clone DCAA2G04 5'
919	13686	28350	11.9	2.0E-58	AF068624.1	NT	Homo sapiens 5-aminolevulinate synthase 2 (ALAS2) gene, complete cds

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1287	14016		10	2.0E-58	BE208532.1	EST_HUMAN	ba08007.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb:X69391.60S RIBOSOMAL PROTEIN L6 (HUMAN); gb:X81987.M1 musculus mRNA for TAX responsive element binding protein (MOUSE);
5273	25065	30708	3.4	2.0E-58	BE907186.1	EST_HUMAN	601498961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
5273	25065	30734	3.4	2.0E-58	BE907186.1	EST_HUMAN	601498961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
5966	18748	31709	1.12	2.0E-58	BF513488.1	EST_HUMAN	UI-H-BW1-ams-g-11-0-U1-1 NCI CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071080 3'
6031	18811	31771					am57e02.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539674 3' similar to WP.ZK328.1 CE05085 UBIQUITIN CONJUGATING ENZYME; RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN;
6032	18841	31803	1.88	2.0E-58	AI124874.1	EST_HUMAN	Yq08106.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:196379 5'
6028	19489	32511	1.12	2.0E-58	AI291407.1	EST_HUMAN	qm84c01.x1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1895424 3'
7056	19747	32809	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7056	19747	32810	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
10841	23332	36570	21.77	2.0E-58	BF307745.1	EST_HUMAN	601800812F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131891 5'
10885	23565	36813	2.43	2.0E-58	AW872841.1	EST_HUMAN	hm2508.x1 NCI CGAP_Thy4 Homo sapiens cDNA clone IMAGE:3013871 3'
705	13480	26128	0.86	1.0E-58	M65134.1	NT	Human complement component C5 mRNA, 3' end
1046	13805	26464	2.41	1.0E-58	6274549	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22kD, B22) (NDUFB9), mRNA
1304	14053	26726	1.91	1.0E-58	AW957182.1	EST_HUMAN	EST369252 MAGC resequences, MAGD Homo sapiens cDNA
1304	14053	26727	1.61	1.0E-58	AW957182.1	EST_HUMAN	EST369252 MAGC resequences, MAGD Homo sapiens cDNA
1376	14124	26788	1.13	1.0E-58	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
2805	15510	28251	2.37	1.0E-58	4759169	NT	Homo sapiens steroid regulatory element binding transcription factor 2 (SREBF2) mRNA
2834	14738	27462	1.6	1.0E-58	5174444	NT	Homo sapiens G protein-coupled receptor 69A (GPR69A) mRNA
3526	16262	28838	0.88	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3526	16262	28839	0.88	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
4913	17841	30256	4.75	1.0E-58	AI141063.1	EST_HUMAN	oz43101.x1 Soares_NHHMPu_S1 Homo sapiens cDNA clone IMAGE:1678128 3'
5751	18543	31465	1.31	1.0E-58	BE061880.1	EST_HUMAN	RC1-BT0254-290100-015-e01 BT0254 Homo sapiens cDNA
6764	19508	32533	0.8	1.0E-58	11422031	NT	Homo sapiens hypothetical protein (LOC51250), mRNA
8013	20708		0.5	1.0E-58	AW973937.1	EST_HUMAN	EST385637 MAGC resequences, MAGM Homo sapiens cDNA
8768	21460	34509	0.66	1.0E-58	4505314	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8880	21571	34714	0.91	1.0E-58	AV751001.1	EST_HUMAN	AV751001 NPC Homo sapiens cDNA clone NPCACH09 5'
8979	21689	34818	0.66	1.0E-58	AA412397.1	EST_HUMAN	z8905.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730497 5'
8979	21689	34819	0.66	1.0E-58	AA412397.1	EST_HUMAN	z8905.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730497 5'
10086	22734	35849	1.21	1.0E-58	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11780	24371		2.11	1.0E-58	X63392.1	NT	H.sapiens immunoglobulin kappa light chain variable region L14
11816	24404	37739	1.57	1.0E-58	D61405.1	NT	Human MSH3 gene, exon10
2225	14953	27691	28.49	8.0E-59	4507378	NT	Homo sapiens TATA box binding protein (TBP) mRNA
8080	20774	33904	2.49	8.0E-59	A1761963.1	EST_HUMAN	wt50408.x1 NCI_CGAP_K1d11 Homo sapiens cDNA clone IMAGE:2384171 3'
173	15536		1.74	6.0E-59	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862088 5'
8144	20838	33970	0.61	6.0E-59	A1750970.1	EST_HUMAN	cn06h02.Y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn06h02 random
1748	14490	27189	1.32	5.0E-59	AW157281.1	EST_HUMAN	au93h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2763865 3' similar to TR:075786 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
1748	14490	27190	1.32	6.0E-59	AW157281.1	EST_HUMAN	au93h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2763865 3' similar to
3124	15889	28530	6.98	5.0E-59	A1807484.1	EST_HUMAN	TR:075786 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
4610	17345	29978	6.55	5.0E-59	X83497.1	NT	wt48c11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2358836 3'
6892	17968	30526	7.5	5.0E-59	AW162304.1	EST_HUMAN	H.sapiens DNA for ZNF80-linked ERV9 long terminal repeat
8705	21397	34544	1.04	5.0E-59	11421778	NT	au68c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains element TAR1 repetitive element;
9804	22257	36443	1.62	5.0E-59	AV762869.1	EST_HUMAN	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
10823	23506	36745	3.78	5.0E-59	11434908	NT	AV762869 MDS Homo sapiens cDNA clone MDSEIC12 5'
776	13548	26210	1.56	4.0E-59	D80006.1	NT	Homo sapiens hypothetical protein (LOC57143), mRNA
5450	18249	31138	1.03	4.0E-59	11034810	NT	Human mRNA for KIAA0184 gene, partial cds
12203	25238		1.91	4.0E-59	AF057720.1	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
9	12836		6.13	3.0E-59	AW965524.1	EST_HUMAN	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
219	13030	28688	4.58	3.0E-59	7862247	NT	EST377592 MAGE resequences, MAGE1 Homo sapiens cDNA
1705	14448	27147	8.2	3.0E-59	4505860	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
1705	14448	27148	8.2	3.0E-59	4505860	NT	Homo sapiens plasminogen activator, tissue (PLAT1a) mRNA
2125	14856	27585	5.59	3.0E-59	AB029035.1	NT	Homo sapiens plasminogen activator, tissue (PLAT1a) mRNA
2125	14856	27586	5.59	3.0E-59	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3126	15891	28534	3.77	3.0E-59	4502014	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3126	15891	28535	3.77	3.0E-59	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3805	16557	29189	1.45	3.0E-59	4508044	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
4638	17372	30007	0.98	3.0E-59	AL163284.2	NT	Homo sapiens zona pellucida glycoprotein 2 (sperm receptor) (ZP2) mRNA
4738	17470	30107	0.92	3.0E-59	4759329	NT	Homo sapiens chromosome 21 segment HS21C084

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4789	17520	30143	1.57	3.0E-59	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
4890	17713		0.97	3.0E-59	M95981.1	NT	Human prothrombin converting enzyme (NEC2) gene, exon 2
6128	18904	31872	2.12	3.0E-59	8924074	NT	Homo sapiens hypothetical protein PRO1741 (PRO1741), mRNA
7259	18943	33020	1.84	3.0E-59	5454137	NT	Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA
7832	20527	33653	1.18	3.0E-59	X12558.1	NT	Human mRNA for dbl proto-oncogene
7832	20527	33654	1.16	3.0E-59	X12558.1	NT	Human mRNA for dbl proto-oncogene
8944	22592	35784	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
8944	22592	35785	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
12327	24748		6.04	3.0E-59	11417868	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
7693	20357		0.71	2.0E-59	BF373328.1	EST_HUMAN	MRO-F10144-250700-002-a10 F10144 Homo sapiens cDNA
9537	22190		6.32	2.0E-59	AA309774.1	EST_HUMAN	EST180633 Jurkat T-cells V Homo sapiens cDNA 5' end
10425	23071		1.19	2.0E-59	BF365554.1	EST_HUMAN	RCO-NT0036-100700-032-a07 NT0036 Homo sapiens cDNA
10734	23421	38653	2.6	2.0E-59	AW410598.1	EST_HUMAN	fn07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861654 5'
10734	23421	38654	2.6	2.0E-59	AW410598.1	EST_HUMAN	fn07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861654 5'
11311	23970	37274	1.31	2.0E-59	H81604.1	EST_HUMAN	yr49h09.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:208673 5' similar to SP:521348
12091	24595	31126	2.93	2.0E-59	A1831809.1	EST_HUMAN	SP:POL_FENV1 P31792 POL POLYPYRROLINE ;
12606	26263	30719	4.65	2.0E-59	L11845.1	NT	wa36c12.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR:Q86542
159	12974		3.03	1.0E-59	BE266411.1	EST_HUMAN	Q86542 RTVL-H PROTEIN ; contains LTR7.b1 LTR7 repetitive element ;
1529	14276	26964	0.93	1.0E-59	T92522.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
2412	15133	27870	1.19	1.0E-59	D11456.2	NT	601175757F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531927 5'
2412	15133	27871	1.19	1.0E-59	D11456.2	NT	y25c09.r1 Stratagene lung (#837210) Homo sapiens cDNA clone IMAGE:118768 5' similar to SP:521348
2623	15335		2.47	1.0E-59	AA748468.1	EST_HUMAN	S21348 HYPOTHETICAL PROTEIN 4 - ;
7462	20135	33227	1.08	1.0E-59	AJ130894.1	NT	Homo sapiens Xdh mRNA for xanthine dehydrogenase, complete cds
7617	20283	33392	0.97	1.0E-59	BE266814.1	EST_HUMAN	Homo sapiens Xdh mRNA for xanthine dehydrogenase, complete cds
7617	20283	33393	0.97	1.0E-59	BE266814.1	EST_HUMAN	Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
9285	22039	35210	0.86	1.0E-59	11410630	NT	Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
9504	22157	35337	0.54	1.0E-59	11428849	NT	Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
9504	22157	35338	0.54	1.0E-59	11428849	NT	Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
10760	20135	33227	12.88	1.0E-59	AJ130894.1	NT	Homo sapiens zinc finger protein 275 (ZNF275), mRNA
747	13520	28178	0.85	8.0E-60	AW977845.1	EST_HUMAN	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
							Homo sapiens mRNA for transcription factor
							EST389849 MAG2 resequences, MAGO Homo sapiens cDNA



Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1455	14202	26886	2.65	8.0E-60	4769159	NT	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA
2169	14898	27632	3.6	8.0E-60	5174656	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
2169	14898	27633	3.6	8.0E-60	5174656	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
5892	18977	31623	1.12	8.0E-60	AB028004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6411	19179	32178	1.07	8.0E-60	S83182.1	NT	hyaluron-binding protein=hepatocyte growth factor activator homolog [human, plasma, mRNA, 2408 nt]
7596	20284	33372	1.07	8.0E-60	11420841	NT	Homo sapiens phosphate cytidylyltransferase 1, choline, beta isoform (PCYT1B), mRNA
7865	20560	33687	2.28	8.0E-60	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
8837	21529	34975	2.6	8.0E-60	11428949	NT	Homo sapiens S-antigen; retina and pineal gland (arrestin) (SAG), mRNA
9371	21946	35118	0.96	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9371	21946	35119	0.96	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10473	23119	36948	0.59	8.0E-60	5433897	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10736	23423	36666	6.36	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
10736	23423	36667	6.36	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
737	13511	26169	3.61	7.0E-60	AF055036.1	NT	Homo sapiens MHC class 1 region
738	13511	26169	17.82	7.0E-60	AF055036.1	NT	Homo sapiens MHC class 1 region
796	13568	26228	0.98	7.0E-60	4504634	NT	Homo sapiens interleukin 10 receptor, beta (LIT0RB), mRNA
2124	14855	27584	1.08	7.0E-60	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2788	15493	28233	1.53	7.0E-60	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
4158	18998	29527	2.58	7.0E-60	4505488	NT	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA
9307	21974	35149	4.02	7.0E-60	HS8041.1	EST_HUMAN	y1204.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element;
11337	24027	37331	2.11	7.0E-60	HS8041.1	EST_HUMAN	y1204.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element;
2177	14906	27639	1.06	6.0E-60	BE964974.2	EST_HUMAN	50165875R1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886069 3'
8336	21029		10.5	6.0E-60	HS2456.1	EST_HUMAN	y178109.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:2359212 3'
82	12908	25545	2.29	5.0E-60	AI807917.1	EST_HUMAN	QF7 repetitive element;
82	12908	25546	2.29	5.0E-60	AI807917.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
2972	15738		1.27	4.0E-60	AA298037.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
						EST_HUMAN	EST11498 Uterus Homo sapiens cDNA 5' end similar to similar to retrovirus-related pol
						EST_HUMAN	m8105.x1 NCLCGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW RHOP_MOUSE
7253	19937	33012	0.89	4.0E-60	BF196068.1	EST_HUMAN	Q61085 GTP-RHO BINDING PROTEIN 1;
9024	21714		0.68	4.0E-60	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
11267	23929	37219	1.29	4.0E-60	11433597	NT	Homo sapiens v-rat-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11267	23929	37220	1.29	4.0E-60	11433597	NT	Homo sapiens v-raf-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA
1852	14590	27305	4.44	3.0E-60	BE562611.1	EST_HUMAN	601338446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'
1852	14590	27308	4.44	3.0E-60	BE562611.1	EST_HUMAN	601338446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'
1852	14600		1.92	3.0E-60	6031190	NT	Homo sapiens pichilatin (PHB) mRNA
4424	17160	29780	1.94	3.0E-60	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
5294	18098	30758	0.57	3.0E-60	BF365143.1	EST_HUMAN	Q14-NN1149-250900-423-401 NN1149 Homo sapiens cDNA
5554	18351	31260	2.12	3.0E-60	AW836186.1	EST_HUMAN	RC3-LT0023-200100-012-401 L70023 Homo sapiens cDNA
6886	17933	30569	1	3.0E-60	A1792814.1	EST_HUMAN	d60111.95 NCL_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1534053 5' similar to SW:UDP_MOUSE_P52624 URIDINE PHOSPHORYLASE;
8301	20995	34132	4.97	3.0E-60	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8301	20995	34133	4.97	3.0E-60	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8482	21174	34319	0.51	3.0E-60	A1040235.1	EST_HUMAN	α55d09.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1660337 3' similar to SW:FORM_MOUSE_Q03860 FORMIN;
8841	21333	34477	4.32	3.0E-60	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9559	22212	35398	0.47	3.0E-60	BF102612.1	EST_HUMAN	601946227F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3930990 5'
11162	23829	37107	1.26	3.0E-60	11427120	NT	Homo sapiens CGI-152 protein (LOC57130), mRNA
11162	23829	37108	1.26	3.0E-60	11427120	NT	Homo sapiens CGI-152 protein (LOC57130), mRNA
12686	25297		2.06	3.0E-60	AA485288.1	EST_HUMAN	ab07h04.r1 Stratagene lung (#837210) Homo sapiens cDNA clone IMAGE:840151 5' similar to contains LTR10.t1 LTR10 repetitive element;
28	12857	25474	3.63	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1404	14151	26831	7.35	2.0E-60	Z11694.1	NT	H. sapiens 41kDa protein kinase related to raf ERK2
1715	14458	27155	1.29	2.0E-60	M24603.1	NT	Human bcr protein mRNA, 5' end
1724	14467	27166	1.59	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
2714	15421	28160	1.96	2.0E-60	AW978005.1	EST_HUMAN	EST3907114 IMAGE resequences, MAGO Homo sapiens cDNA
3566	16321	28969	0.69	2.0E-60	4757867	NT	Homo sapiens v-raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
3895	16845	29285	0.73	2.0E-60	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
6208	18983	31962	0.86	2.0E-60	A1791952.1	EST_HUMAN	m01112.95 NCL_CGAP_C09 Homo sapiens cDNA clone IMAGE:1076495 5' similar to contains THR.t1 THR repetitive element;
6400	19169	32168	1.87	2.0E-60	AF004877.1	NT	Homo sapiens pro-alpha 2(I) collagen (COL1A2) gene, complete cds
6615	19378	32393	0.96	2.0E-60	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
6750	17819	30583	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA
6750	17919	30584	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Database No.	Top Hit Source	Top Hit Descriptor
7010	19702	32757	2.73	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymosin, alpha
7010	19702	32758	2.73	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymosin, alpha
7124	19812	32880	0.59	2.0E-60	AI308124.1	EST_HUMAN	h23d09.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2055185 3' similar to SW:GALR_RAT
7632	20202		0.79	2.0E-60	BF512808.1	EST_HUMAN	C62805 GALANIN RECEPTOR;
7604	20599	33729	0.84	2.0E-60	X85597.1	EST_HUMAN	UI-H-BW1-amu-c-02-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071210 3'
8766	21468	34908	3.01	2.0E-60	L36033.1	NT	HS15B8EST human adult testis Homo sapiens cDNA clone CAM_EST15
							Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds
9878	22528	35724	2.28	2.0E-60	11991659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA
9878	22528	35725	2.28	2.0E-60	11991659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA
11448	23216	36448	1.53	2.0E-60	11434729	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
11809	24398	37732	1.8	2.0E-60	BF530674.1	EST_HUMAN	602071973F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4214683 5'
11809	24398	37733	1.8	2.0E-60	BF530674.1	EST_HUMAN	602071973F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4214683 5'
12384	24767		3.02	2.0E-60	11418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA
12494	25228		1.93	2.0E-60	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12496	24851		2.34	2.0E-60	11418068	NT	Homo sapiens similar to HSPC022 protein (H. sapiens) (LOC63504), mRNA
12510	24862		1.77	2.0E-60	AB011389.1	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
509	13293	25925	1.13	1.0E-60	BE178586.1	EST_HUMAN	PM3-HT0605-270200-001-e06 HT0605 Homo sapiens cDNA
3882	16832	29271	1.18	1.0E-60	AU143389.1	EST_HUMAN	AU143389 Y79AA1 Homo sapiens cDNA clone Y79AA1001854 5'
4901	17628	30245	1.2	1.0E-60	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
7848	20543	33671	0.91	1.0E-60	BE084410.1	EST_HUMAN	RC4-BT0311-141199-011-h08 BT0311 Homo sapiens cDNA
							nc04ef12.r1 NCI_CGAP_Prl1 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.1 L1
8653	21945		3.46	1.0E-60	AA244041.1	EST_HUMAN	repetitive element;
8681	21373	34517	1.41	1.0E-60	AV754081	EST_HUMAN	AV754081 TP Homo sapiens cDNA clone TPGAED05 5'
1077	13835	28493	2.21	9.0E-61	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
2676	15385	28126	1.16	8.0E-61	AW008478.1	EST_HUMAN	w05b10.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2506555 3'
2676	15385	28127	1.18	8.0E-61	AW008478.1	EST_HUMAN	w05b10.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2506555 3'
2951	15717		1.53	8.0E-61	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
7796	20491	33614	1.05	8.0E-61	AA583988.1	EST_HUMAN	mt59g08.s1 NCI_CGAP_Lex1 Homo sapiens cDNA clone IMAGE:1088216 3'
124	12941	25583	1.97	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
124	12941	25584	1.97	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25583	2.38	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25584	2.38	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5034	12941	25593	1.04	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
5034	12941	25594	1.04	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
259	13067	25705	2.95	6.0E-61	BE409310.1	EST_HUMAN	601300939F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
793	13565	26226	1.62	6.0E-61	BE409310.1	EST_HUMAN	601300939F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
1298	14047	26719	15	6.0E-61	AF119860.1	NT	Homo sapiens PRO2014 mRNA, complete cds
1626	14372	27061	0.97	6.0E-61	BE267400.1	EST_HUMAN	601109238F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350145 5'
1643	14389	27078	2.63	6.0E-61	AA596033.1	EST_HUMAN	nm68109.s1 NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088897 3'
2123	14854	27583	1.58	6.0E-61	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
3301	16063	28711	9.37	6.0E-61	AU130689.1	EST_HUMAN	AU130689 NT2P3 Homo sapiens cDNA clone NT2P3001263 5'
5941	18723	31682	3.37	6.0E-61	S79248.1	NT	Ig-beta/B29=CD79b (alternatively spliced) [human, B cells, mRNA Partial, 375 nt]
7242	19927	33003	1.82	6.0E-61	U24498.1	NT	Human autosomal dominant polycystic kidney disease protein 1 (PKD1) gene
7518	20189	33282	1.67	6.0E-61	AF035737.1	NT	Homo sapiens general transcription factor 2-1 (GTF2i) mRNA, complete cds
11474	24075	37384	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
11474	24075	37385	1.35	6.0E-61	AF090388.1	NT	Homo sapiens napsin A mRNA, complete cds
12265	13565	26226	1.62	6.0E-61	BE409310.1	EST_HUMAN	601300939F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
350	13149	25789	1.73	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1674	14419	27112	2.22	5.0E-61	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3032	15798	28444	2.56	5.0E-61	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
3193	15956	28608	3.27	5.0E-61	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-1, Alzheimer disease) (APP), mRNA
3963	16712	25789	1.78	5.0E-61	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 1/3
4941	13149	25789	1.07	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5080	17799	30416	3.38	5.0E-61	4502288	NT	Homo sapiens ATPase, Ca++ transporting, plasma membrane 1 (ATP2B1) mRNA
5725	18517	31438	0.87	4.0E-61	7661637	NT	Homo sapiens DKF ZP5668023 protein (DKF ZP5668023), mRNA
12068	24582	34151	3.51	4.0E-61	AV731140.1	EST_HUMAN	AV731140 HTF Homo sapiens cDNA clone HTFARB01 5'
8320	21013	34151	0.69	3.0E-61	AF150190.1	EST_HUMAN	AF150190 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone CBDAGB04
8598	21288	34427	0.84	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
8596	21288	34428	0.84	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
486	13271	25906	1.52	2.0E-61	8922829	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
1190	13942	26607	0.82	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-401 HT0513 Homo sapiens cDNA
1190	13942	26608	0.82	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-401 HT0513 Homo sapiens cDNA
1680	14408	27097	1	2.0E-61	IN53039.1	EST_HUMAN	yf56d11.s1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:248453 3' similar to gb:L25444 60S RIBOSOMAL PROTEIN L35A (HUMAN);

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2647	16357		1.04	2.0E-61	N93997.1	EST_HUMAN	yy03f11.1 Soares melanocyte 2NtHM Homo sapiens cDNA clone IMAGE:270189 5'
6332	19102	32090	0.98	2.0E-61	11428168	NT	Homo sapiens ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (1107118KD) (ATP6N1A), mRNA
8913	21604	34748	0.98	2.0E-61	AV694317.1	EST_HUMAN	AV694317 GKC Homo sapiens cDNA clone GKC0ELG06 5'
9462	22012		0.99	2.0E-61	AB011108.1	NT	Homo sapiens mRNA for KIAA0536 protein, partial cds
9822	22473	35676	1.67	2.0E-61	AW500256.1	EST_HUMAN	U1-HF-BN0-akd-f-12-Q-U1.1 NIH_MGC 50 Homo sapiens cDNA clone IMAGE:3076774 5'
10150	22798	36014	2.3	2.0E-61	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
10799	23482		1.81	2.0E-61	11419729	NT	Homo sapiens ribosomal protein L44 (RPL44), mRNA
756	13528	26188	1.11	1.0E-61	5453829	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L) mRNA
1851	14589	27304	3.71	1.0E-61	6005983	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
2193	14922	27656	1.42	1.0E-61	AW827281.1	EST_HUMAN	xt11b09.y1 NCI_CGAP_U15 Homo sapiens cDNA clone IMAGE:2693369 5' similar to contains element MSR1 repetitive element;
2839	15607	28257	1.47	1.0E-61	BE386363.1	EST_HUMAN	601273513F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3614687 5'
3369	16128	28786	0.86	1.0E-61	7662319	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
3715	16468	29106	1.2	1.0E-61	BE174455.1	EST_HUMAN	QV2-HT0577-140300-077-g06 HT0577 Homo sapiens cDNA
4407	17144	29773	0.81	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4407	17144	29774	0.81	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4804	17535	30157	8.11	1.0E-61	AW298181.1	EST_HUMAN	U1-H-BW0-ajb-b-08-0-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
4804	17535	30158	8.11	1.0E-61	AW298181.1	EST_HUMAN	U1-H-BW0-ajb-b-08-0-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
4905	17632	30247	0.75	1.0E-61	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
5309	18114	30772	1.62	1.0E-61	M76423.1	NT	H sapiens carbonic anhydrase VII (CA VII) gene, exons 4,5,6, and 7, and complete cds
5603	18398	31310	0.79	1.0E-61	7662303	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
5793	18584	31511	1.29	1.0E-61	11416891	NT	Homo sapiens survival of motor neuron 1, telomeric (SMN1), mRNA
6900	19451	32482	7.11	1.0E-61	M30135.1	NT	Human P40 T-cell and mast cell growth factor (hP40) gene, complete cds
6991	19884	32732	0.67	1.0E-61	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
7091	19780	32845	1.42	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
7091	19780	32848	1.42	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8033	20728	33961	3	1.0E-61	11034840	NT	Homo sapiens growth hormone releasing hormone (GHRH), mRNA
8212	20906	34041	3.06	1.0E-61	AF224699.1	NT	Homo sapiens menosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9182	21856		2.7	1.0E-61	AW699726.1	EST_HUMAN	MF0-BN0070-040400-010-H01 BN0070 Homo sapiens cDNA
9257	21936	35110	7.73	1.0E-61	11416280	NT	Homo sapiens cadherin 18 (CDH18), mRNA
9928	22876	35776	5.24	1.0E-61	11428892	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
10531	23228	36462	2.84	1.0E-61	11425578	NT	Homo sapiens actinin, alpha 4 (ACTN4), mRNA

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10855	23535	36780	1.49	1.0E-61	AB044550.1	NT	Homo sapiens P/OKcl.19 mRNA for ubiquitin-conjugating enzyme E2, complete cds
11006	23678	36935	1.53	1.0E-61	AB007830.1	NT	Homo sapiens mRNA for CSR2, complete cds
12007	25273	30726	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12007	25273	30727	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12659	24959	30888	11.56	1.0E-61	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
10255	22803	36113	1.45	9.0E-62	BE064366.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
4814	17249	29885	1.1	8.0E-62	AA830420.1	EST_HUMAN	cc66h11.31 NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354725 3' similar to SW:POL_MLVRK
1085	13843	28501	1.62	7.0E-62	AV714334.1	EST_HUMAN	P31795 POL POLYPROTEIN;
3497	16263	28907	0.74	7.0E-62	P17480	SWISSPROT	AV714334 DOB Homo sapiens cDNA clone DCBAMA08 5'
5826	18615	31547	0.84	7.0E-62	11427665	NT	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1)
11323	24014	37317	7.1	7.0E-62	AI208881.1	EST_HUMAN	Homo sapiens hypothetical protein (FLJ20261), mRNA
2998	15764		1.42	6.0E-62	U09410.1	NT	q956a04.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1839150 3' similar to TR:O15103
3379	16138		4.1	6.0E-62	11418255	NT	Human zinc finger protein ZNF131 mRNA, partial cds
7525	20196	33289	3.03	6.0E-62	AI762801.1	EST_HUMAN	Homo sapiens CGI-56 protein (CGI-56), mRNA
7525	20196	33290	3.03	6.0E-62	AI762801.1	EST_HUMAN	w04402.x1 NCI CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2389251 3'
7984	20679		0.72	6.0E-62	AW501124.1	EST_HUMAN	w04402.x1 NCI CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2389251 3'
8155	20849	33981	1.45	6.0E-62	11431139	NT	UI-HF-BP0p-alk-D-09-Q-UI/1 NIH_MGC 51 Homo sapiens cDNA clone IMAGE:3072833 5'
9254	21933	35106	3.27	6.0E-62	AW814393.1	EST_HUMAN	Homo sapiens CGI-18 protein (LOC51008), mRNA
407	13192	25840	2.8	5.0E-62	AI950528.1	EST_HUMAN	MR3-ST0203-130100-025-a09 ST0203 Homo sapiens cDNA
2406	15127	27863	4.25	5.0E-62	AJ271735.1	NT	wx61e07.x1 NCI CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN
2406	15127	27864	4.25	5.0E-62	AJ271735.1	NT	Q08379 GOLGIN-95; contains element MER22 repetitive element;
2598	15312	28048	1.35	5.0E-62	U39487.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
2598	15312	28049	1.35	5.0E-62	U39487.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
3413	16171	28820	2.92	5.0E-62	4508758	NT	Human xanthine dehydrogenase/oxidase mRNA, complete cds
4293	17032	28660	2.8	5.0E-62	AA431093.1	EST_HUMAN	Human xanthine dehydrogenase/oxidase mRNA, complete cds
8447	21139	34278	0.55	5.0E-62	4506758	NT	Homo sapiens ryanodine receptor 3 (R/R3) mRNA
9417	22095	35267	6.45	5.0E-62	AW410687.1	EST_HUMAN	zw78a09.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT
11231	23894	37180	2.85	5.0E-62	11425574	NT	P47245 NARDILYSIN;
11231	23894	37181	2.85	5.0E-62	11425574	NT	Homo sapiens ryanodine receptor 3 (R/R3) mRNA
							fn07g09.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2661816 5'
							Homo sapiens muscle specific gene (M9), mRNA
							Homo sapiens muscle specific gene (M8), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
820	13591	26258	1.95	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
820	13591	26258	1.95	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26258	2.96	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26258	2.96	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2459	15177	27916	1.78	4.0E-62	AB27900.1	EST_HUMAN	wf12b08.x1 Soares NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2459	15177	27917	1.78	4.0E-62	AB27900.1	EST_HUMAN	wf12b08.x1 Soares NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
3394	16153		6.34	4.0E-62	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
5833	18622	31555	1.84	4.0E-62	4506978	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA
6204	18979	31959	1.9	4.0E-62	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7071	19782	32828	1.84	4.0E-62	11421041	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase 2 (PRPS2), mRNA
7534	20204	33299	2.48	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
7534	20204	33300	2.48	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8071	20765	33894	1.06	4.0E-62	11429973	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1), mRNA
8745	21437	34584	4.97	4.0E-62	AB033089.1	NT	Homo sapiens mRNA for KIAA1263 protein, partial cds
10934	23614	36864	4.45	4.0E-62	Z78766.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA16D3
10934	23614	36865	4.45	4.0E-62	Z78766.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA16D3
11995	24533	37270	2.81	4.0E-62	11418086	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12590	24947	30984	1.34	4.0E-62	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12645	24942	30981	16.72	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12645	24942	30982	16.72	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12692	24976	30993	2.72	4.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
72	12899	25535	0.89	3.0E-62	4557794	NT	Homo sapiens neurofibronin 2 (bilateral acoustic neuroma) (NF2) mRNA
3041	15807	28452	1.11	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3041	15807	28453	1.11	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3886	16439	29081	5.41	3.0E-62	X62858.1	NT	Human cyclophilin-related processed pseudogene

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8438	21130	34267	5.82	3.0E-62	AI632733.1	EST_HUMAN	wa33f04.x1 NCI_CGAP_K1d11 Homo sapiens cDNA clone IMAGE:2299003 3' similar to contains THR12 THR repetitive element:
1209	13960	26627	2.36	2.0E-62	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
8673	21365	34511	4.89	2.0E-62	BF329911.1	EST_HUMAN	RC0-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
8673	21365	34512	4.89	2.0E-62	BF329911.1	EST_HUMAN	RC0-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
10072	22720		3.8	2.0E-62	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
11889	24284		4.81	2.0E-62	BF330676.1	EST_HUMAN	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
1021	13781	26443	1.87	1.0E-62	AF248540.1	NT	Homo sapiens hirsutin 2 (SHSD1B) mRNA, complete cds
1536	14283	26970	11.01	1.0E-62	L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
1791	14531	27239	1.04	1.0E-62	AA625207.1	EST_HUMAN	at70e11.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1 CE03463:
2915	15881	28328	0.99	1.0E-62	AL039044.1	EST_HUMAN	DKFZp668F04_r1 566 (synonym: hfrd2) Homo sapiens cDNA clone DKFZp668F104 5'
4317	17068		0.71	1.0E-62	BE166413.1	EST_HUMAN	QV0-HT0493-280200-135-H12-HT0493 Homo sapiens cDNA
4490	17228	28855	1.57	1.0E-62	8923201	NT	Homo sapiens hypothetical protein FLJ20212 (FLJ20212), mRNA
5071	17780	30405	0.9	1.0E-62	L23503.1	NT	Human glucagon-like peptide-1 receptor (GLP-1) mRNA, complete cds
6198	18972	31948	0.86	1.0E-62	U62111.2	NT	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
7034	19726	32782	0.91	1.0E-62	AA490060.1	EST_HUMAN	ab05c02.s1 Stralagene fetal retina 837202 Homo sapiens cDNA clone IMAGE:839906 3'
7045	19736	32796	2.94	1.0E-62	AA722878.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409771 3'
7045	19736	32797	2.94	1.0E-62	AA722878.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409771 3'
8655	21347	34491	0.5	1.0E-62	AA280050.1	EST_HUMAN	zs83e07.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:705060 5'
8958	21647	34797	2.13	1.0E-62	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8958	21647	34798	2.13	1.0E-62	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8999	21689	34838	2.02	1.0E-62	X15533.1	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
8999	21689	34839	2.02	1.0E-62	X15533.1	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
9457	22007	35177	3.54	1.0E-62	AA465170.1	EST_HUMAN	aa33d08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 3'
11339	24029	37333	2.01	1.0E-62	Z78898.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA14D8
11868	24450	37792	1.52	1.0E-62	11424055	NT	Homo sapiens eosinophil component Rtp46 (LOC65915), mRNA
12474	24838		2.25	1.0E-62	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (GELSR1), mRNA
12873	24966	30890	2.99	1.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
329	13130	25765	2.59	9.0E-63	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-f05 ST0234 Homo sapiens cDNA
2345	15068		1.53	9.0E-63	C18159.1	EST_HUMAN	C18159 Human placenta cDNA (Tfujiwara) Homo sapiens cDNA clone GEN-558C10 5'



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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4020	16766	29395	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4020	16766	29396	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
5164	17895	37798	3.05	9.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
5379	18179	30869	1.63	9.0E-63	Y15056.1	NT	Homo sapiens mRNA for PKB kinase
7082	19772	32837	3.86	9.0E-63	11426935	NT	Homo sapiens nucleoporin 88kD (NUP88), mRNA
7724	20387	33501	0.91	9.0E-63	4885544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
8224	20918	34055	1.38	9.0E-63	11421160	NT	Homo sapiens Ras association (RalGDS/AF-6) domain family 2 (RASSF2), mRNA
10816	23499	36736	2.03	9.0E-63	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10816	23499	36737	2.03	9.0E-63	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
2343	15066	27803	1.32	8.0E-63	4557734	NT	Homo sapiens monomelic oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA
2373	15095	27834	2.06	8.0E-63	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3454	16210	28861	3.02	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
3454	16210	28862	3.02	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
4234	16975	29600	3.31	8.0E-63	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
908	13875		2.09	7.0E-63	AI872137.1	EST_HUMAN	wn55g11.x1 NCI_CGAP_U02 Homo sapiens cDNA clone IMAGE:2439908 3'
5255	18061		48.05	6.0E-63	AA420803.1	EST_HUMAN	nc6302.r1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:745947 similar to gb:Y00361 60S
8773	21465	34612	1.97	5.0E-63	11526464	NT	RIBOSOMAL PROTEIN (HUMAN):
3315	16075	28726	0.84	4.0E-63	AL163278.2	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
3788	16540	29174	1.16	4.0E-63	AB014607.1	NT	Homo sapiens chromosome 21 segment HS21C078
3788	16540	29175	1.16	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6353	19123	32115	3.64	4.0E-63	AW750372.1	EST_HUMAN	Homo sapiens mRNA for KIAA0707 protein, partial cds
6353	19123	32116	3.84	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA
11077	23747	37021	2.3	4.0E-63	AW134709.1	EST_HUMAN	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA
11077	23747	37022	2.3	4.0E-63	AW134709.1	EST_HUMAN	U1H-B11-abq-a-02-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
11846	24430	37771	4.32	4.0E-63	AA362834.1	EST_HUMAN	U1H-B11-abq-a-02-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
1928	14664	27377	2.82	3.0E-63	AB018260.1	NT	EST72607 Ovary II Homo sapiens cDNA 5' and similar to zinc finger protein family
2782	15497	28225	2.26	3.0E-63	J00310.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
2824	13967	26636	11.81	3.0E-63	6005963	NT	Human Met-RNA-1 gene 1
6382	19151	32150	32.78	3.0E-63	11545810	NT	Homo sapiens zinc finger protein 144 (ZNF144), mRNA
9605	22258	35444	1.15	3.0E-63	BE876158.1	EST_HUMAN	Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC83928), mRNA
9605	22258	35445	1.15	3.0E-63	BE876158.1	EST_HUMAN	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
186	12996	25639	1.09	2.0E-63	U07804.1	NT	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
							Human DNA topoisomerase I mRNA, partial cds

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
193	13008	25647	1.68	2.0E-63	4885228	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
485	13270		2.34	2.0E-63	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8KD) (GLCLG), mRNA
807	13579	26244	5.57	2.0E-63	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
1559	14308	26994	1.43	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1559	14308	26995	1.43	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1760	14502	27203	1.1	2.0E-63	BE410739.1	EST_HUMAN	601301627F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE 3638103 5'
3154	15917	28563	3.44	2.0E-63	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3279	16040	28690	2.02	2.0E-63	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
3685	16635	29274	3.74	2.0E-63	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4813	17544	30169	1	2.0E-63	AF111167.2	NT	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5099	17818	30435	0.96	2.0E-63	6912817	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA
5181	25082	30505	1.26	2.0E-63	11418429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83214), mRNA
5794	18585	31512	2.96	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c08 FT0170 Homo sapiens cDNA
5794	18585	31513	2.96	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c08 FT0170 Homo sapiens cDNA
6083	18871	31837	0.84	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6083	18871	31838	0.84	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6602	19365	32379	1.67	2.0E-63	U68059.1	NT	Human germline T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV9S1A1T, TCRBV7S1A1N2T, TCRBV5S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV9S2A2PT, TCRBV7S2A1N4T, TCRBV13S9/13S>
6649	19411	32425	0.88	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6649	19411	32426	0.88	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6975	19456	32477	1.45	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
6975	19456	32478	1.45	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7678	20342	33454	0.87	2.0E-63	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
7713	20377	33490	0.56	2.0E-63	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC83232), mRNA
8431	21124	34262	3.96	2.0E-63	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
8952	21643	34791	1.35	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
8952	21643	34792	1.35	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9839	22490	35691	1.12	2.0E-63	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10647	23338	36577	6.43	2.0E-63	N78945.1	EST_HUMAN	z018b05.s1 Soares fetal_lung_NibH.19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:X17206 40S RIBOSOMAL PROTEIN S4 (HUMAN);
10672	23363	36604	2.96	2.0E-63	AF099810.1	NT	Homo sapiens neurexin II-alpha gene, partial cds
10672	23363	36605	2.96	2.0E-63	AF099810.1	NT	Homo sapiens neurexin II-alpha gene, partial cds
12098	25177	30807	5.97	2.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
1502	14248	26934	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
1502	14248	26935	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4308	17047	29672	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4308	17047	29673	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
5268	18074	30703	0.8	1.0E-63	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
5883	18478	31394	1.4	1.0E-63	AW582268.1	EST_HUMAN	QVQ-ST0215-060100-083-b09 ST0215 Homo sapiens cDNA
6298	19071	32055	0.68	1.0E-63	AW451950.1	EST_HUMAN	U1-H-B13-alk-h-02-Q-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
6298	19071	32056	0.68	1.0E-63	AW451950.1	EST_HUMAN	U1-H-B13-alk-h-02-Q-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
8371	21064		2.68	1.0E-63	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12737	25288		4.04	1.0E-63	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
7768	20462	33586	4.36	9.0E-64	A1478186.1	EST_HUMAN	Im50b07.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2181525 3'
1024	13784		6.16	8.0E-64	BE280796.1	EST_HUMAN	601155232F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139038 5'
6049	18829	31792	3.88	8.0E-64	BE885755.1	EST_HUMAN	601508988F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910336 5'
11916	24479		7.34	8.0E-64	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
11970	24518		1.6	8.0E-64	T60651.1	EST_HUMAN	y59802.r1 StrataGene lung (#637210) Homo sapiens cDNA clone IMAGE:79179 5'
3520	16276		1.13	7.0E-64	BE394321.1	EST_HUMAN	601311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3633204 5'
4883	17417	30052	2.73	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
4883	17417	30053	2.73	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
9893	22581	35779	3.43	7.0E-64	Y07848.1	NT	Homo sapiens EW5, gar22, rrp22 and barn22 genes
1716	14459	27158	1.63	8.0E-64	A1851992.1	EST_HUMAN	wb51e07.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2308220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
1716	14459	27157	1.63	8.0E-64	A1851992.1	EST_HUMAN	wb51e07.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2308220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
3120	15885	28524	4.39	6.0E-64	AW026445.1	EST_HUMAN	wv13e03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
3120	15885	28525	4.39	6.0E-64	AW026445.1	EST_HUMAN	wv13e03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
5534	18332	31237	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31238	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5555	18352	31261	4.08	6.0E-64	M13975.1	NT	Homo sapiens protein Kinase C beta-II type (PRKCB1) mRNA, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5564	13361	31268	1.26	6.0E-64	6912461	NT	Homo sapiens atrophin-1 interacting protein 1 (KIAA0705), mRNA
5739	18531	31453	0.62	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
5739	18531	31454	0.82	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
7136	18823	32889	2.34	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
7136	18823	32890	2.34	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
9226	19105	35077	6.76	6.0E-64	11420555	NT	Homo sapiens acetyl-CoA synthetase (LOC55902), mRNA
9406	22066	35240	2.09	6.0E-64	AF274753.1	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
9618	22271	35458	2.78	6.0E-64	S76475.1	NT	trkC [human, brain, mRNA, 2715 nt]
10669	23360	36600	6.01	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10669	23360	36601	6.01	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10941	15885	28524	1.84	6.0E-64	AW026445.1	EST_HUMAN	wf13e03.x1 NCI CGAP Brn23 Homo sapiens cDNA clone IMAGE:2529436 3'
10941	15885	28525	1.84	6.0E-64	AW026445.1	EST_HUMAN	wf13e03.x1 NCI CGAP Brn23 Homo sapiens cDNA clone IMAGE:2529436 3'
12115	24608	31069	4.97	6.0E-64	11526198	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
801	13573	26235	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
801	13573	26236	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1316	14064	26738	1.84	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1401	14148	26827	1.3	5.0E-64	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1401	14148	26828	1.3	5.0E-64	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1706	14449	27149	1.37	5.0E-64	U89358.1	NT	Human (3)mbt protein homolog mRNA, complete cds
2829	14210	28897	4.85	5.0E-64	7662205	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
2829	14210	28898	4.85	5.0E-64	7662205	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
3940	16690	28328	6.71	5.0E-64	AF017433.1	NT	Homo sapiens putative transcription factor ORF53 (ORF53) mRNA, partial cds
4085	16828	28455	1.05	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
7718	20380	33493	0.58	4.0E-64	BE794607.1	EST_HUMAN	601590382F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3944397 5'
10715	23404	36644	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
10715	23404	36645	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
2195	14924	27658	5.41	3.0E-64	C18895.1	EST_HUMAN	C18895 Human placenta cDNA (Tfujivara) Homo sapiens cDNA clone GEN-569E02 5'
3249	19011	28662	0.89	3.0E-64	BE794361.1	EST_HUMAN	601589565F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3943577 5'
3436	16192	28841	2.22	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
3436	16192	28842	2.22	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
5980	18771	31734	1.21	3.0E-64	Z28273.1	NT	H.sapiens isoform 1 gene for L-type calcium channel, exon 28
9401	18170	32189	3.34	3.0E-64	BF370000.1	EST_HUMAN	RC6-FN0019-280600-011-G11 FN0019 Homo sapiens cDNA
8365	21058	34188	1.93	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8365	21058	34199	1.93	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8393	21086	34220	3.69	3.0E-64	BE206521.1	EST_HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb.L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
8393	21086	34221	3.69	3.0E-64	BE206521.1	EST_HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb.L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
9327	21994	35165	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9327	21994	35166	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9414	22092	35263	0.8	3.0E-64	AW977384.1	EST_HUMAN	EST389493 MAGe resequences, MAGO Homo sapiens cDNA
9414	22092	35264	0.6	3.0E-64	AW977384.1	EST_HUMAN	EST389493 MAGe resequences, MAGO Homo sapiens cDNA
11691	24286	37608	1.8	3.0E-64	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
1066	13824	26484	1.64	2.0E-64	AA609940.1	EST_HUMAN	af09d08.s1 Soares, testis_NHT Homo sapiens cDNA clone IMAGE:1031151 3'
1377	14125	26799	1.54	2.0E-64	4757701	NT	Homo sapiens eIF4E-like cap-binding protein (4EHP) mRNA
2528	15244		1.82	2.0E-64	AI927030.1	EST_HUMAN	wc87b01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contains element L1 repetitive element;
2533	15248	27887	2.05	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2533	15248	27888	2.05	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
3137	15901	28546	1.42	2.0E-64	4504068	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
3767	16519	29157	0.78	2.0E-64	AW958145.1	EST_HUMAN	EST370215 MAGe resequences, MAGO Homo sapiens cDNA
3767	16519	29158	0.78	2.0E-64	AW958145.1	EST_HUMAN	EST370215 MAGe resequences, MAGO Homo sapiens cDNA
5916	18701	31655	2.78	2.0E-64	AU124387.1	EST_HUMAN	AU124387 NT2RM2 Homo sapiens cDNA clone NT2RM2002113 5'
6148	18925	31895	1.47	2.0E-64	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
6394	19163	32164	5.21	2.0E-64	BF668537.1	EST_HUMAN	602123474F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4280395 5'
9497	19283	32254	1.16	2.0E-64	AI078387.1	EST_HUMAN	oz29b03.x1 Soares, total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676717 3'
6601	19364	32378	4.54	2.0E-64	M77185.1	NT	H.sapiens dopamine receptor D5 pseudogene 1, partial cds
7707	20371	33484	0.7	2.0E-64	11431054	NT	Homo sapiens ataxin 2-binding protein 1 (A2BP1), mRNA
7732	20395	33510	0.65	2.0E-64	AW606785.1	EST_HUMAN	QV1-H10413-010200-059-112 HT0413 Homo sapiens cDNA
8567	21259	34395	0.73	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
8567	21259	34396	0.73	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
9036	21728	34882	0.56	2.0E-64	11423508	NT	Homo sapiens hypothetical protein SBBI87 (LOC57115), mRNA
9130	21818	34984	0.97	2.0E-64	AU132570.1	EST_HUMAN	AU132570 NT2RP4 Homo sapiens cDNA clone NT2RP4000109 5'
9879	22529	35726	0.59	2.0E-64	T06397.1	EST_HUMAN	EST04296 Fetal brain, Striatum (cat#36206) Homo sapiens cDNA clone HFBD588
9879	22529	35727	0.59	2.0E-64	T06397.1	EST_HUMAN	EST04296 Fetal brain, Striatum (cat#36206) Homo sapiens cDNA clone HFBD588
10662	23353	36592	3.72	2.0E-64	BF528114.1	EST_HUMAN	602042892F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4180556 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10981	23656	36909	5.97	2.0E-64	A1922911.1	EST_HUMAN	wn81b06.x1 NCL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
10981	23656	36910	5.97	2.0E-64	A1922911.1	EST_HUMAN	wn81b06.x1 NCL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
11198	23863	37149	1.76	2.0E-64	AW864773.1	EST_HUMAN	PM2-SN0018-220300-002-s12 SN0018 Homo sapiens cDNA
12039	24562	31114	1.55	2.0E-64	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
12488	24834		4.85	2.0E-64	H55162.1	EST_HUMAN	CHR220101 Chromosome 22 exon Homo sapiens cDNA clone G22_132 5'
251	13060	25698	2.94	1.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1772	14514	27214	10.45	1.0E-64	A1929419.1	EST_HUMAN	au60c01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to gb:121898_cds1 PROTHYMOSIN ALPHA (HUMAN); contains element MSR1 repetitive element ;
3070	15776	28426	0.79	1.0E-64	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
3501	16257	28912	5.74	1.0E-64	AF196779.1	NT	Homo sapiens transcription factor IGIM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel $\alpha$
3572	16327	28974	1.27	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3572	16327	28975	1.27	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3881	16631	29270	0.79	1.0E-64	8922829	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11026), mRNA
9964	22812	35816	1.07	1.0E-64	AA042975.1	EST_HUMAN	zk53f08.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486567 3'
12012	24545		1.81	1.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2274	15000	27738	1.53	9.0E-65	X89211.1	NT	H sapiens DNA for endogenous retroviral like element
2274	15000	27739	1.53	9.0E-65	X89211.1	NT	H sapiens DNA for endogenous retroviral like element
11523	24123		10.43	9.0E-65	BF330676.1	EST_HUMAN	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
11493	24094	37405	10.87	8.0E-65	A1929244.1	EST_HUMAN	au58h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005 3' similar to SW:RL21_HUMAN P46778 60S RIBOSOMAL PROTEIN L21. ;
10055	22703	35921	2.01	7.0E-65	BE081653.1	EST_HUMAN	QV2-BT0635-240400-162-c02 BT0635 Homo sapiens cDNA
11807	24397	37731	1.27	7.0E-65	Z21378.1	EST_HUMAN	HSAAEAWO TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam test346 (b)
1034	13784	28454	3.59	6.0E-65	AV721898.1	EST_HUMAN	AV721898 HTB Homo sapiens cDNA clone HTBBZC06 5'
1915	14652		4.73	6.0E-65	AA550929.1	EST_HUMAN	h86d10.s1 NCL_CGAP_P11 Homo sapiens cDNA clone IMAGE:999379 similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);
6475	19242	32242	0.62	6.0E-65	AA503892.1	EST_HUMAN	ht37b07.s1 NCL_CGAP_P16 Homo sapiens cDNA clone IMAGE:954517
8645	21337	34481	2.3	6.0E-65	AW083252.1	EST_HUMAN	xc07b09.x1 NCL_CGAP_Co21 Homo sapiens cDNA clone IMAGE:2583545 3' similar to TR:Q83306 Q83306 LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORFS.; contains L1.b2 L1 repetitive element ;
8909	21600	34742	3.46	6.0E-65	AA427878.1	EST_HUMAN	zw53b06.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773747 3'
8909	21600	34743	3.46	6.0E-65	AA427878.1	EST_HUMAN	zw53b06.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773747 3'
8973	21663	34814	0.81	6.0E-65	A085314.1	EST_HUMAN	qt18h05.x1 NCL_CGAP_Bn25 Homo sapiens cDNA clone IMAGE:1750425 3'

Table 4

## Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9973	21683	34815	0.81	6.0E-65	AI085314.1	EST_HUMAN	qf18h05.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1750425 3'
10783	23466	36707	3.82	6.0E-65	BE567816.1	EST_HUMAN	601340485F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682677 5'
10968	23644	36897	1.52	6.0E-65	BF340825.1	EST_HUMAN	602037721F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4185677 5'
11480	24081	37392	1.86	6.0E-65	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1331	14080	26754	1.6	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
1331	14080	26755	1.6	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
2161	14881	27615	1.6	5.0E-65	AB033788.1	NT	Homo sapiens HPAD-colony10 mRNA for peptidylarginine deiminase type I, complete cds
3250	16012	28683	1.6	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3250	16012	28684	1.6	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10384	23011	36228	1.01	5.0E-65	AF009688.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
188	13001	25642	2.02	4.0E-65	AL120419.1	EST_HUMAN	DKFZp761G108_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
728	13502	26156	1.37	4.0E-65	AI266468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8tc9weeks_2NbhHP8tc9W Homo sapiens cDNA clone IMAGE:1891800 3'
728	13502	26157	1.37	4.0E-65	AI266468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8tc9weeks_2NbhHP8tc9W Homo sapiens cDNA clone IMAGE:1891800 3'
1056	13814	26475	1.38	4.0E-65	4826735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1489	14216	26903	11.06	4.0E-65	4506636	NT	Homo sapiens ribosomal protein L34 (RPL34) mRNA
2336	15080	27796	0.91	4.0E-65	BE221469.1	EST_HUMAN	hu25e04.x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171102 3'
2336	15080	27797	0.91	4.0E-65	BE221469.1	EST_HUMAN	hu25e04.x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171102 3'
3930	16680	29321	1.08	4.0E-65	AW993185.1	EST_HUMAN	RC2-BN0033-160200-013-ac3 BN0033 Homo sapiens cDNA
5124	17842	30459	1.03	4.0E-65	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI), mRNA
5124	17842	30460	1.03	4.0E-65	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI), mRNA
6063	18842	31804	4.6	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6063	18842	31805	4.6	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6983	19676	32723	0.55	4.0E-65	AY008372.1	NT	Homo sapiens oxysterol binding protein-related protein 3 (ORP3) mRNA, complete cds
7017	19709	32765	0.97	4.0E-65	M19879.1	NT	Human clebindin 27 gene, exons 10 and 11, and L1 and Alu repeats
7119	19807	32873	2.52	4.0E-65	U40372.1	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7448	20124	33215	0.97	4.0E-65	U40372.1	NT	Human 3',5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7448	20124	33216	0.97	4.0E-65	U40372.1	NT	Human 3',5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7741	20437	33558	1.86	4.0E-65	5453765	NT	Homo sapiens ne (chicken)-like 2 (NELL2), mRNA
7741	20437	33559	1.86	4.0E-65	5453765	NT	Homo sapiens ne (chicken)-like 2 (NELL2), mRNA
9044	21734	34888	0.63	4.0E-65	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10480	23126		2.04	4.0E-65	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10874	23664	36801	1.97	4.0E-65	AV738764.1	EST_HUMAN	AV738764 CB Homo sapiens cDNA clone CBC0BE05 5'
11041	23712	36882	3.68	4.0E-65	AF119846.1	NT	Homo sapiens PRO1474 mRNA, complete cds
12319	13814	26475	1.46	4.0E-65	4826735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1210	15522		3.8	3.0E-65	X78932.1	NT	H. sapiens HZF9 mRNA for zinc finger protein
1551	14297	26984	0.91	3.0E-65	4504628	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1816	14558	27271	0.93	3.0E-65	A1000692.1	EST_HUMAN	ov23f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element MSR1 repetitive element
3271	18032	28683	0.75	3.0E-65	4604960	NT	Homo sapiens laminin, beta 1 (LAMB1), mRNA
3709	16462	29101	0.99	3.0E-65	A1000692.1	EST_HUMAN	ov23f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element MSR1 repetitive element
4602	17337	29966	1.91	3.0E-65	6912385	NT	Homo sapiens rab8 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA
9869	22617	35820	1.44	3.0E-65	BE787396.1	EST_HUMAN	80147968F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882405 5'
11363	23174	39402	11.12	3.0E-65	AA430006.1	EST_HUMAN	zw68a06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781042 5'
3399	16157	28809	5.75	2.0E-65	BF680294.1	EST_HUMAN	602155062F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295968 5'
8442	19210		2.46	2.0E-65	BE263373.1	EST_HUMAN	601190883F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3534741 5'
7032	19724	32780	32.07	2.0E-65	BF576922.1	EST_HUMAN	602134359F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4299295 5'
8744	21436	34582	1.06	2.0E-65	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
8744	21436	34583	1.08	2.0E-65	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
10552	23248	38485	2	2.0E-65	11419247	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA
11969	24515		3.85	2.0E-65	AA307804.1	EST_HUMAN	EST178755 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to similar to endogenous retrovirus
12431	25156		2.2	2.0E-65	BF246086.1	EST_HUMAN	601854033F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073769 5'
89	12815		1.59	1.0E-65	BF125544.1	EST_HUMAN	601763498F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026501 5'
526	13310	25943	1.44	1.0E-65	7657495	NT	Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA
2033	14798	27498	1.29	1.0E-65	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
3365	16124	28781	0.81	1.0E-65	BE466881.1	EST_HUMAN	h224a09.x1 NCI CGAP_G06 Homo sapiens cDNA clone IMAGE:3208888 3'
3980	16728	29382	2.47	1.0E-65	4504082	NT	Homo sapiens glycocalyx 4 (GPC4) mRNA
3980	16728	29383	2.47	1.0E-65	4504082	NT	Homo sapiens glycocalyx 4 (GPC4) mRNA
4183	16923	29551	2.01	1.0E-65	AW029340.1	EST_HUMAN	wx09c09.x1 NCI CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
4183	16923	29552	2.01	1.0E-65	AW029340.1	EST_HUMAN	wx09c09.x1 NCI CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
8152	20846	33977	2.04	1.0E-65	AW820481.1	EST_HUMAN	QV2-ST0298-140200-042-112 ST0298 Homo sapiens cDNA
8152	20846	33978	2.04	1.0E-65	AW820481.1	EST_HUMAN	QV2-ST0298-140200-042-112 ST0298 Homo sapiens cDNA



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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8178	20872	34006	0.56	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8178	20872	34007	0.56	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8218	20912	34047	2.03	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYROT1 Homo sapiens cDNA clone THYROT1000356 5'
8218	20912	34048	2.03	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYROT1 Homo sapiens cDNA clone THYROT1000356 5'
8739	21431	34576	1.21	1.0E-65	BF698707.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
8818	21609	34752	2.62	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
8818	21609	34753	2.62	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
8929	21620		2.36	1.0E-65	11431994	NT	Homo sapiens insulin-like growth factor receptor type 1 (IGF1R), mRNA
9007	21697	34848	1.96	1.0E-65	7662227	NT	Homo sapiens KIAA0686 gene product (KIAA0686), mRNA
9377	21952	35124	5.05	1.0E-65	AI191716.1	EST_HUMAN	q556a02.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1733450 3' similar to gb:M25581 ZINC FINGER PROTEIN 8 (HUMAN); contains MER19.11 MER19 repetitive element;
9785	22436	35643	1.11	1.0E-65	AU153783.1	EST_HUMAN	AU153783 NT2RP3 Homo sapiens cDNA clone NT2RP3004016 3'
10200	22848	36064	0.6	1.0E-65	AA069559.1	EST_HUMAN	zrf5a04.r1 Soares pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:382734 5'
10470	23116	36346	1.01	1.0E-65	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
10546	23242	36477	1.59	1.0E-65	M26167.1	NT	Human platelet factor 4 variation 1 (PF4var1) gene, complete cds
10676	23367	36610	8.63	1.0E-65	4506660	NT	Homo sapiens ribosomal protein L7a (RPL7A), mRNA
11076	23745	37018	2.24	1.0E-65	BF698707.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
11172	23839	37122	2.26	1.0E-65	AI621017.1	EST_HUMAN	fs7a06.x1 NCI CGAP_G06 Homo sapiens cDNA clone IMAGE:2237170 3' similar to gb:L15533_rna1
12013	24546		2.65	1.0E-65	11418041	NT	PANCREATITIS ASSOCIATED PROTEIN 1 PRECURSOR (HUMAN);
12108	24604	31086	5.92	1.0E-65	11418322	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12519	24867		1.97	1.0E-65	11418249	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
69	12897	25531	1.31	9.0E-66	AL160311.1	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
69	12897	25532	1.31	9.0E-66	AL160311.1	NT	Novel human gene mapping to chromosome 22
1332	14081	26756	1.89	9.0E-66	5031980	NT	Novel human gene mapping to chromosome 22
1332	14081	26757	1.88	9.0E-66	5031980	NT	Novel human gene mapping to chromosome 22
1467	14214		5.51	9.0E-66	M87299.1	EST_HUMAN	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
4642	17376	30009	0.77	8.0E-66	AA424304.1	EST_HUMAN	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
11319	24010		2.99	7.0E-65	BE064410.1	EST_HUMAN	Human transposon-like element, partial
4332	17071	26698	1.15	8.0E-66	AI924653.1	EST_HUMAN	z60065.r1 Soares_NhlHMPU_S1 Homo sapiens cDNA clone IMAGE:767048 5'
							RCA-BT0311-141189-011-h05 BT0311 Homo sapiens cDNA
							wn57n07.x1 NCI CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9 4A
							CE18595;
							wn57n07.x1 NCI CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9 4A
							CE18595;
		29699	1.16	6.0E-66	AI924653.1	EST_HUMAN	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4332	17071	29700	1.15	6.0E-66	AI924853.1	EST_HUMAN	wn57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F16G9.4A CE18695;
8333	21026		0.48	6.0E-66	BE178563.1	EST_HUMAN	PM2-HT0604-030300-001-506 HT0604 Homo sapiens cDNA
11108	23778	37052	3.14	6.0E-66	X69181.1	NT	H.sapiens mRNA for ribosomal protein L31
1346	14094	26766	1.45	5.0E-66	BE064410.1	EST_HUMAN	RC4-BT0311-141198-011-h08 BT0311 Homo sapiens cDNA
5046	17765	30382	0.74	5.0E-66	BE898644.1	EST_HUMAN	601681592F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951791 5'
5046	17765	30383	0.74	5.0E-66	BE898644.1	EST_HUMAN	601681592F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951791 5'
9194	21864	35028	16.11	5.0E-66	11420557	NT	Homo sapiens thyroid hormone receptor binding protein (AIB3), mRNA
773	13645	26206	0.98	4.0E-66	6679816	NT	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
1729	14471	27170	1.14	4.0E-66	AW897798.1	EST_HUMAN	RC1-NN0063-100500-022-a02 NN0063 Homo sapiens cDNA
2278	15004	27744	1.83	4.0E-66	X89211.1	NT	H.sapiens DNA for endogenous retroviral like element
2477	15195		3.02	4.0E-66	AJ223364.1	NT	Homo sapiens germ-line DNA upstream of Jkappa locus
4733	17485		10.89	4.0E-66	9635487	NT	Human endogenous retrovirus, complete genome
5463	18282	31163	3.73	4.0E-66	11428643	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
5657	18462	31366	1.16	4.0E-66	AW939119.1	EST_HUMAN	QV1-DT0069-110200-067-g10 DT0069 Homo sapiens cDNA
6757	17926	30581	4.83	4.0E-66	AW965473.1	EST_HUMAN	EST37546 MAGIE resequences, MAGI Homo sapiens cDNA
7031	19723	32779	7.93	4.0E-66	U78168.1	NT	Homo sapiens cAMP-regulated guanine nucleotide exchange factor I (cAMP-GEFI) mRNA, complete cds
7529	18262	31153	0.72	4.0E-66	11428643	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
7876	20671	33794	5.63	4.0E-66	11421638	NT	Homo sapiens hypothetical protein FLJ20116 (FLJ20116), mRNA
8034	20729	33862	0.73	4.0E-66	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
10558	23252	36489	1.87	4.0E-66	BF507483.1	EST_HUMAN	U1-H-BW1-amr-a-10-Q-U1.s1 NCI_CGAP_Sub57 Homo sapiens cDNA clone IMAGE:3070747 3'
11351	24041	37344	1.28	4.0E-66	AB023215.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
1407	14164	28835	10.96	3.0E-66	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1407	14154	26836	10.96	3.0E-66	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1975	14711	27429	1.18	3.0E-66	N55323.1	EST_HUMAN	yz27g12.r1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35088 HISTONE H2B.1/H2B.2. [2] PIR:B56612;
1975	14711	27430	1.16	3.0E-66	N55323.1	EST_HUMAN	yz27g12.r1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35088 HISTONE H2B.1/H2B.2. [2] PIR:B56612;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1975	14711	27431	1.16	3.0E-66	N55323.1	EST_HUMAN	y27g12.1 Soares_multiple_sclerosis_2NBHMS Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2 [2] PIR:B56612;
2711	15418	28156	3.54	3.0E-66	11141880	NT	Homo sapiens TGF(beta)-induced transcription factor 2 (TGIF2), mRNA
3115	15880	28520	6.3	3.0E-66	7662223	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
5380	18180	30870	1.14	3.0E-66	AB020699.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds
5480	18289	31186	0.73	3.0E-66	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1), mRNA, complete cds
5686	18479	31397	1.92	3.0E-66	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5686	18479	31398	1.92	3.0E-66	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
9425	22103	35275	0.82	3.0E-66	AK024453.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
9619	22272	35459	0.52	3.0E-66	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9973	22621	35826	0.8	3.0E-66	7019480	NT	Homo sapiens protocadherin beta 1 (PCDH-beta1), mRNA
10420	23066	36287	0.97	3.0E-66	AF155659.1	NT	Homo sapiens myoblasten cofactor biosynthesis protein E (MCBPE), mRNA, complete cds
11494	24095	37406	6.16	3.0E-66	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A), mRNA
11806	24396	37730	1.57	3.0E-66	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
50	12879	25505	2.15	2.0E-66	7657334	NT	Homo sapiens Mischapen/NIK-related kinase (MINK), mRNA
50	12879	25506	2.15	2.0E-66	7657334	NT	Homo sapiens Mischapen/NIK-related kinase (MINK), mRNA
413	12824	25437	1.76	2.0E-66	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
413	12824	25438	1.76	2.0E-66	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
1819	14558	27272	2.05	2.0E-66	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
3510	16266	28920	0.77	2.0E-66	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3747	16500	29134	0.68	2.0E-66	AL117233.1	NT	Novel human gene mapping to chromosome 1
4044	16789	29417	0.8	2.0E-66	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
4607	17342	29973	9.48	2.0E-66	AJ133267.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
4607	17342	29974	9.48	2.0E-66	AJ133267.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
5726	18518	31439	1.3	2.0E-66	AW968854.1	EST_HUMAN	EST380930 MAGI ressequences, MAGI Homo sapiens cDNA
5726	18518	31440	1.3	2.0E-66	AW968854.1	EST_HUMAN	EST380930 MAGI ressequences, MAGI Homo sapiens cDNA
8746	21438	34585	2.26	2.0E-66	N45480.1	EST_HUMAN	y59c02.1 Soares_multiple_sclerosis_2NBHMS Homo sapiens cDNA clone IMAGE:277826 5'
12329	25370		2.37	2.0E-66	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
1678	14422		1.15	1.0E-66	BE987173.1	EST_HUMAN	601508376F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909931 5'
2895	15662	28309	1.38	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2895	15662	28310	1.36	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4392	15662	28309	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4352	15662	28310	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
5297	18102	30761	5.96	1.0E-68	BF673088.1	EST_HUMAN	602152966F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294151 5'
5692	18486	31408	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
5692	18486	31407	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
6839	18501	32528	1.57	1.0E-66	BF328623.1	EST_HUMAN	RC5-BN0193-010900-034-G06 BN0193 Homo sapiens cDNA
8357	21050	34189	1.19	1.0E-66	AA668858.1	EST_HUMAN	aa60a04.st NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:827262 3'
9326	21993	35164	0.84	1.0E-66	AA018828.1	EST_HUMAN	za57e12.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363118 5'
10270	22918	38129	0.92	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10270	22918	38130	0.92	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10892	23542	38789	2.48	1.0E-66	AF11187.2	NT	Homo sapiens jun dimerization protein gene, partial cds, cfos gene, complete cds, and unknown gene
11509	24109	37422	1.8	1.0E-66	AW968744.1	EST_HUMAN	EST380820 MAGE resequences, MAGJ Homo sapiens cDNA
12113	24606		2.51	9.0E-67	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
371	13186	25841	1.52	7.0E-67	AW162232.1	EST_HUMAN	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
1361	14109	26784	2.89	7.0E-67	AA383416.1	EST_HUMAN	EST196812 Testis 1 Homo sapiens cDNA 5' end similar to C. elegans hypothetical protein, cosmid
1547	14293	26979	1.38	7.0E-67	W85947.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
1547	14293	26980	1.38	7.0E-67	W85947.1	EST_HUMAN	EST196812 Testis 1 Homo sapiens cDNA 5' end similar to C. elegans hypothetical protein, cosmid
2026	14761	27489	2.06	7.0E-67	7657243	NT	zhs5805.r1 Soares fetal_liver_spleen_infls_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2026	14761	27490	2.06	7.0E-67	7657243	NT	zhs5805.r1 Soares fetal_liver_spleen_infls_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2813	13196	25841	3.4	7.0E-67	AW162232.1	EST_HUMAN	Homo sapiens inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
5989	18770	31733	0.78	7.0E-67	10190895	NT	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
6177	18954	31927	2.02	7.0E-67	11425572	NT	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
6177	18954	31928	2.02	7.0E-67	11425572	NT	Homo sapiens zinc finger protein 304 (ZNF304), mRNA
6823	19385	32399	1.26	7.0E-67	4885084	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
7531	20201	33286	1	7.0E-67	11419212	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
7531	20201	33287	1	7.0E-67	11419212	NT	Homo sapiens ATPase, H <sup>+</sup> -transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein
8222	20916	34052	0.59	7.0E-67	4557732	NT	1A (110/116KD) (ATP6N1A), mRNA
8830	21622	34669	0.58	7.0E-67	10835044	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
							Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
							Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
							Homo sapiens retinaldehyde dehydrogenase 2 (RALDH2), mRNA

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11266	23918		1.56	7.0E-67	11434579	NT	Homo sapiens fucosyltransferase 8 (alpha 1,6) fucosyltransferase (FUT8), mRNA
11677	24272	37594	6.37	7.0E-67	U82486.1	NT	Human cytochrome oxidase subunit VIa (COX6A1P) pseudogene, complete cds
11898	24465	37803	2.24	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
11898	24465	37804	2.24	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12355	24759	31061	1.58	7.0E-67	AB011399.1	NT	Homo sapiens gene for AIF-6, complete cds
546	13329	25960	2.12	6.0E-67	X68968.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
778	13550	26211	0.92	6.0E-67	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
1250	13999	26666	1.29	6.0E-67	Y14320.1	NT	Homo sapiens PMP69 gene, exons 3, 4, 5, 6 & 7
3166	15929	28578	1.17	6.0E-67	4506434	NT	Homo sapiens retinoblastoma 1 (including osteosarcoma) (RB1) mRNA
3431	16187	28835	1.64	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
3431	16187	28836	1.64	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
4106	16849	29474	0.7	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4106	16849	29475	0.7	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4657	17391	30025	5.01	6.0E-67	7657020	NT	Homo sapiens DKFZP434P211 protein (DKFZP434P211), mRNA
4657	17391	30026	5.01	6.0E-67	7657020	NT	Homo sapiens DKFZP434P211 protein (DKFZP434P211), mRNA
5101	17635		1.23	6.0E-67	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3215	15978	28629	1.91	5.0E-67	AF009680.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
10905	23585		1.68	5.0E-67	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA
1305	14054	26728	0.93	4.0E-67	R90819.1	EST_HUMAN	yr02d11.1 Soares adult brain N2b4HB55Y Homo sapiens cDNA
7920	20615	33743	0.82	4.0E-67	AI730332.1	EST_HUMAN	q28c05.x5 NCL_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1483288 3' similar to SW_Z333A_HUMAN
8281	20975		1.24	4.0E-67	BF357321.1	EST_HUMAN	Q06730 ZINC FINGER PROTEIN 33A ;
							RC0-HT0634-150900-028-c03 HT0934 Homo sapiens cDNA
							rw08a01.s1 NCL_CGAP_SST Homo sapiens cDNA clone IMAGE:1238472 3' similar to TR.O10385 O10385
10996	23669		1.39	4.0E-67	AA714294.1	EST_HUMAN	PRO-POL-DUTPASE POLYPROTEIN ;
2816	13396	28031	1.55	3.0E-67	AA333768.1	EST_HUMAN	EST37903 Embryo, 9 week Homo sapiens cDNA 5' end
3446	16202	28852	0.98	3.0E-67	BE084410.1	EST_HUMAN	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA
4646	17390	30012	2.87	3.0E-67	AW869159.1	EST_HUMAN	MR3-SN0066-040500-008-f01 SN0068 Homo sapiens cDNA
							hr8105.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
8081	20775	33905	1.53	3.0E-67	BF196088.1	EST_HUMAN	Q61085 GTP-RHO BINDING PROTEIN 1 ;
11224	23887		14.39	3.0E-67	AA927874.1	EST_HUMAN	cm18b07.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1541365 3'
							hw16g09.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183136 3' similar to WP:F23H11.9
183	12996	25635	0.81	2.0E-67	BE348354.1	EST_HUMAN	CE09617 ;
826	13596	26265	7.3	2.0E-67	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-f05 ST0234 Homo sapiens cDNA
1093	13841		1.75	2.0E-67	AF167460.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a, 2, 3, and 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1877	14814	27325	1.36	2.0E-67	BE303037.1	EST_HUMAN	ba72q05.v1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905676 5' similar to TR:O94892 O94892
1877	14814	27326	1.36	2.0E-67	BE303037.1	EST_HUMAN	KIAA0798 PROTEIN. ;
2235	14863	27702	1.3	2.0E-67	11422946	NT	ba72q05.v1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905676 5' similar to TR:O94892 O94892
2235	14863	27703	1.3	2.0E-67	11422946	NT	KIAA0798 PROTEIN. ;
2384	15105	27845	1.09	2.0E-67	AF309561.1	NT	Homo sapiens hypothetical protein dJ462023.2 (DJA62023.2), mRNA
2432	15153	27887	1.28	2.0E-67	4758795	NT	Homo sapiens KRAAB zinc finger protein ZFOR mRNA
3460	16218	28870	3.8	2.0E-67	AA625755.1	EST_HUMAN	Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
3884	16732	29366	3.03	2.0E-67	AL103300.2	NT	zj91g01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:745392 3'
5981	18762	31726	0.6	2.0E-67	AL104978.1	NT	Homo sapiens chromosome 21 segment HS21C100
6034	18814	31774	5.54	2.0E-67	BF240758.1	EST_HUMAN	Novel human gene mapping to chromosome 13
6203	18978	31956	2.46	2.0E-67	AB051763.1	NT	60187555F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4091893 5'
6203	18978	31957	2.46	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6646	19310	32315	0.76	2.0E-67	AL120542.1	EST_HUMAN	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
8458	21148	34280	0.82	2.0E-67	AA334609.1	EST_HUMAN	DKFZp761A229.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A229 5'
8458	21148	34291	0.82	2.0E-67	AA334609.1	EST_HUMAN	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin
8895	21586	34724	1.21	2.0E-67	AW602635.1	EST_HUMAN	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin
8895	21586	34725	1.21	2.0E-67	AW602635.1	EST_HUMAN	RC4-BT0566-170100-011-c07 BT0566 Homo sapiens cDNA
9488	22076	35246	0.83	2.0E-67	AV731333.1	EST_HUMAN	RC4-BT0566-170100-011-c07 BT0566 Homo sapiens cDNA
9608	22261	35447	0.87	2.0E-67	AW293624.1	EST_HUMAN	AV731333 HTF Homo sapiens cDNA clone HTFARD03 5'
10970	23646	36899	3.72	2.0E-67	BF034485.1	EST_HUMAN	U1-H-B12-alm-e-10-0-U1.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727283 3'
10988	26433		-4.67	2.0E-67	11436448	NT	601455262F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3858975 5'
11193	23658	37145	2.11	2.0E-67	BE295714.1	EST_HUMAN	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
11434	23201	36433	1.86	2.0E-67	BF377169.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3631038 5'
12235	25231	30819	1.36	2.0E-67	11418189	NT	PM2-TN0103-040900-001-c02 TN0103 Homo sapiens cDNA
12527	24874	31018	2.05	2.0E-67	11417877	NT	Homo sapiens thyroid autoantigen 70KD (Ku antigen) (G22P1), mRNA
246	13055	25695	9.34	1.0E-67	4502166	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
692	13467	26114	1.01	1.0E-67	AA702794.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
11846	24429	37770	8.58	1.0E-67	AI654867.1	EST_HUMAN	z80b04.s1 Soares_fetal_liver_spleen_1NF1S_S1 Homo sapiens cDNA clone IMAGE:448015 3'
2174	14903	27636	2.13	8.0E-68	BE870732.1	EST_HUMAN	wb65c12.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2310550 3'
3861	16601	29238	4.86	8.0E-68	AA208456.1	EST_HUMAN	601448558F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3852254 5'
							z882h10.r1 Stralagene hNT neuron (#837233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW:SAV_SULAC Q07590 SAV PROTEIN. ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3651	16601	29239	4.96	8.0E-68	AA209456.1	EST_HUMAN	z62h10.1 Striatum NNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to
8000	20695	33822	0.55	7.0E-68	AI810505.1	EST_HUMAN	SW:SAV_SULAC 007590 SAV PROTEIN. ;
7737	20402	33518	0.56	6.0E-68	AB014820.1	NT	wb96c03.xt NC1 CGAP P128 Homo sapiens cDNA clone IMAGE:2312860 3'
10347	22994	36213	2.47	6.0E-68	11422086	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
							Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
							Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
11097	23767	37042	1.61	6.0E-68	AF133901.1	NT	
12529	24875		1.78	6.0E-68	BE612554.1	EST_HUMAN	601452087F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855761 5'
12772	25026	30963	1.4	6.0E-68	BF310875.1	EST_HUMAN	601894635F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124144 5'
800	13572	26233	5.05	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
800	13572	26234	5.05	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
2783	15488	28226	1.36	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3144	15908	28553	3.23	5.0E-68	AB037852.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
4457	17193	29819	0.73	5.0E-68	AL157645.1	EST_HUMAN	DKFZp547D207_r1 547 (synonym: mbr1) Homo sapiens cDNA clone DKFZp547D207 5'
6627	19389	32402	0.61	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rabin3)-like 1 (RAB3IL1), mRNA
6827	19389	32403	0.61	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rabin3)-like 1 (RAB3IL1), mRNA
4918	17646		9.55	4.0E-68	P04406	SWISSPROT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
5098	17917	30434	0.97	4.0E-68	7549804	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
5874	18661	31602	0.7	4.0E-68	AF157063.1	NT	Homo sapiens sedlin (SEDL) gene, exon 4
6875	19592	32629	6.51	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
6875	19592	32630	6.51	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
7562	20250	33356	0.66	4.0E-68	7661683	NT	Homo sapiens DKFZP586L0724 protein (DKFZP586L0724), mRNA
8938	21629	34771	5.05	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
8938	21629	34772	5.05	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9077	21766	34929	3.08	4.0E-68	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
10925	23605	36854	1.68	4.0E-68	4508282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1), mRNA
10925	23605	36855	1.68	4.0E-68	4508282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1), mRNA
11115	23785	37061	1.26	4.0E-68	AB040948.1	NT	Homo sapiens mRNA for KIAA1515 protein, partial cds
11828	24412	37749	1.39	4.0E-68	AJ251760.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and Xlalphas (partial) genes
11864	24448	37789	12.15	4.0E-68	4758267	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
11864	24448	37790	12.15	4.0E-68	4758267	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
3653	16406	29045	5.37	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
9357	20428		5.82	3.0E-68	AI342323.1	EST_HUMAN	q38h02.x1 Soares_fetal_jung_NbHL19W Homo sapiens cDNA clone IMAGE:1950291 3' similar to contains THR12 THR repetitive element ;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10388	23045	38281	1.23	3.0E-68	F28784.1	EST_HUMAN	HSPD18178 HM3 Homo sapiens cDNA clone s3000023D09
2885	17983		15.31	2.0E-68	D00522.1	NT	Cricetulus longicaudatus mRNA for EF-1 alpha, complete cds
4633	17368	30004	1.38	2.0E-68	AB008881.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
6776	19520		9.64	2.0E-68	R45088.1	EST_HUMAN	y938g04.s1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:34896 3'
6863	19445	32462	5.38	2.0E-68	BF035316.1	EST_HUMAN	601458514F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:382034 5'
7270	19654	33030	0.73	2.0E-68	BF336745.1	EST_HUMAN	IL3-CT0534-180900-273-A01 CT0534 Homo sapiens cDNA
8848	21539	34885	0.63	2.0E-68	Q05859	SWISSPROT	FORMIN 4 (LIMB DEFORMITY PROTEIN)
10505	23151	36376	0.75	2.0E-68	N78483.1	EST_HUMAN	yz78407.r1 Soares multiple sclerosis_2NbfHMSHP Homo sapiens cDNA clone IMAGE:289165 5'
11210	23873	37160	1.66	2.0E-68	BF330594.1	EST_HUMAN	QV0-BT0074-130999-014-g04 BT0074 Homo sapiens cDNA
77	12903	25541	1	1.0E-68	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
289	13095	25737	13	1.0E-68	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
2249	14977	27716	1.03	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2249	14977	27716	1.03	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
3991	16739	29373	0.95	1.0E-68	BE296032.1	EST_HUMAN	601177002F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:352344 5'
4969	17694	30302	0.92	1.0E-68	AA897343.1	EST_HUMAN	al47g12.s1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460518 3'
5239	18045	30674	1.37	1.0E-68	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
7578	20245	33350	1	1.0E-68	11438716	NT	Homo sapiens sentrin/SUMO-specific protease (SENP1), mRNA
10373	23019	36235	0.6	1.0E-68	AA429538.1	EST_HUMAN	zw74402.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:781923 5'
10756	23441	36685	1.85	1.0E-68	11418868	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
10756	23441	36686	1.85	1.0E-68	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
10819	23502	36741	3.5	1.0E-68	L76416.1	NT	Homo sapiens MIF2 suppressor (HSMIT3) mRNA, complete cds
11148	23815	37088	1.71	1.0E-68	11433277	NT	Homo sapiens myosin IC (MYOTC), mRNA
11226	23889	37176	1.62	1.0E-68	AF043129.1	NT	Homo sapiens interleukin-7 receptor precursor (IL7R) gene, exons 7 and 8 and complete cds
11270	23931	37223	1.26	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11270	23931	37224	1.26	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11866	24261	37584	1.48	1.0E-68	11418431	NT	Homo sapiens CGI-76 protein (LOC51632), mRNA
11866	24261	37585	1.48	1.0E-68	11418431	NT	Homo sapiens CGI-76 protein (LOC51632), mRNA
12511	12903	25541	2.66	1.0E-68	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
12719	25322	30712	2.11	1.0E-68	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
19	12847	25460	1.16	9.0E-69	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
19	12847	25461	1.18	9.0E-69	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1006	13766	26426	1.41	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1006	13766	26427	1.41	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2275	15001	27740	1.15	9.0E-69	4788279	NT	Homo sapiens EPHA4 (EPHA4) mRNA



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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2275	15001	27741	1.15	9.0E-69	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4109	18852	29479	0.71	9.0E-69	4757867	NT	Homo sapiens v-ref. murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
10805	23488		6.5	9.0E-69	AU117241.1	EST_HUMAN	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000968 5'
3381	16140		1.09	8.0E-69	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
6259	19033	32008	6.49	7.0E-69	9969312	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
7762	20458	33581	9.09	6.0E-69	AI192764.1	EST_HUMAN	q62h01.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gbL11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);
7762	20458	33582	9.09	6.0E-69	AI192764.1	EST_HUMAN	q62h01.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gbL11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);
8873	21664	34709	1.01	5.0E-69	AA826039.1	EST_HUMAN	cd60a03.s1 NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1372300 3'
507	13291		1.78	4.0E-69	AI873630.1	EST_HUMAN	wm26h11.x1 NCI CGAP_U14 Homo sapiens cDNA clone IMAGE:2437125 3'
5874	25073	31384	1.42	4.0E-69	BE561063.1	EST_HUMAN	601344705F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677641 5'
5753	18645	31467	5.28	4.0E-69	AI764973.1	EST_HUMAN	wh57b06.x1 NCI CGAP_Ki611 Homo sapiens cDNA clone IMAGE:2384819 3' similar to TR:O55137 O55137 ACYL-COA THIOESTERASE. ;
6531	19297	32301	2.71	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6531	19297	32302	2.71	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8812	21504	34651	0.52	4.0E-69	AU118634.1	EST_HUMAN	AU118634 HEMBA1 Homo sapiens cDNA clone HEMBA1006283 5'
377	13202	25848	3.69	3.0E-69	BE258012.1	EST_HUMAN	60110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 5'
598	13376	26006	2.32	3.0E-69	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
1548	14294		3.19	3.0E-69	T80514.1	EST_HUMAN	y408a02.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:24880 5' similar to SP:A48836 A48836 SPEG III=EGF REPEAT-CONTAINING FIBROPELIN-LIKE PROTEIN - SEA URCHIN ;
5163	17894	37797	3.64	3.0E-69	11418185	NT	Homo sapiens acetylase 2, mitochondrial (ACO2), mRNA
6706	19620		0.67	3.0E-69	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
6759	17928	30563	0.74	3.0E-69	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
7272	19856	33032	0.68	3.0E-69	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7320	20003	33082	1.83	3.0E-69	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
7451	20127	33219	8.32	3.0E-69	AF268075.1	NT	Homo sapiens TRAF6-binding protein T6BP mRNA, complete cds
8270	20964	34106	0.88	3.0E-69	AW138646.1	EST_HUMAN	UJ-H-B11-aw-g-01-Q.U1.s1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715840 3'
8666	21358		0.65	3.0E-69	AA376399.1	EST_HUMAN	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
8913	21980	35152	1.01	3.0E-69	X13223.1	NT	Hi.sapiens mRNA for N-acetylglucosaminide-(beta 1-4)-galactosyltransferase

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9433	22111	35286	2.03	3.0E-69	X06233.1	NT	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF)-related protein
9728	22380	36582	0.75	3.0E-69	5730038	NT	Homo sapiens SEC10 (S. cerevisiae)-like 1 (SEC10L1), mRNA
10538	23235	36468	1.44	3.0E-69	11432120	NT	Homo sapiens ribosomal protein S15a (RPS15A), mRNA
10745	23432		7.81	3.0E-69	AA376399.1	EST_HUMAN	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
12024	24552		5.17	3.0E-69	11419157	NT	Homo sapiens HGC6.2 protein (HGC6.2), mRNA
128	13180	25827	1.64	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
128	13180	25828	1.64	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
395	13180	25827	10.33	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
395	13180	25828	10.33	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
1878	14615	27327	2.08	2.0E-69	BE267857.1	EST_HUMAN	601109444F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350074 5'
2848	15618		3.18	2.0E-69	AA431157.1	EST_HUMAN	zw71g02.11 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781682 5'
8452	21144	34284	1.08	2.0E-69	AA114270.1	EST_HUMAN	zm29g01.11 Stralagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:527088 5'
1698	14441	27139	1.98	1.0E-69	AF053768.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
4962	17687		0.74	1.0E-69	BE409094.1	EST_HUMAN	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'
5959	18741	31700	0.87	1.0E-69	BE902501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
5959	18741	31701	0.87	1.0E-69	BE902501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
6508	19273	32274	4.37	1.0E-69	AW393969.1	EST_HUMAN	QV0-TT0010-031189-045-c07 TT0010 Homo sapiens cDNA
6721	19538	32679	1.26	1.0E-69	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6721	19538	32680	1.26	1.0E-69	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6737	19571	32603	3.01	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6737	19571	32604	3.01	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6782	19526	32554	1.14	1.0E-69	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
6782	19528	32555	1.14	1.0E-69	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
10073	22721	35937	4.91	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10073	22721	35938	4.91	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10168	22818	36034	1.38	1.0E-69	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
10314	22961	36177	0.57	1.0E-69	BF528429.1	EST_HUMAN	602043782F1 NCJ_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4181325 5'
10782	23465		10.52	1.0E-69	4504918	NT	Homo sapiens keratin 8 (KR18) mRNA
11964	24512	37261	1.74	1.0E-69	BF125887.1	EST_HUMAN	601762902F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'
12368	24769		4.45	1.0E-69	AI609894.1	EST_HUMAN	wf64e08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360390 3' similar to contains Alu repetitive element; contains element MIR repetitive element;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2331	15591	27791	2.08	8.0E-70	AA230303.1	EST_HUMAN	nc13d12.1 NCI_CGAP_P71 Homo sapiens cDNA clone IMAGE:1008023
4340	17079	29708	1.93	8.0E-70	L77566.1	NT	Homo sapiens DGS-1 mRNA, 3' end
1806	14546	27260	1.01	7.0E-70	A1497807.1	EST_HUMAN	tm89f01.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165305 3'
1806	14546	27261	1.01	7.0E-70	A1497807.1	EST_HUMAN	tm89f01.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165305 3'
1923	14660	27371	1.66	7.0E-70	AA232855.1	EST_HUMAN	z115h04.1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:713239 5'
2056	14788		2.92	7.0E-70	5031668	NT	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC-1R) mRNA
4199	16940	29566	3.67	7.0E-70	4767723	NT	Homo sapiens adenylate cyclase 3 (ADCY3) mRNA
5395	18195	30888	4.88	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
5395	18195	30889	4.88	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
8826	19487	32509	2.16	7.0E-70	AJ000052.1	NT	Homo sapiens gene encoding splicing factor SF1, exons 2-8
8330	21023	34159	2.2	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8330	21023	34160	2.2	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8622	21314	34457	3.58	7.0E-70	M74099.1	NT	Human displacement protein (GCAAT) mRNA
8622	21314	34458	3.58	7.0E-70	M74099.1	NT	Human displacement protein (GCAAT) mRNA
9055	21744	34902	3.8	7.0E-70	X59841.1	NT	Human PBX3 mRNA
9055	21744	34903	3.8	7.0E-70	X59841.1	NT	Human PBX3 mRNA
9335	20406	33522	3.43	7.0E-70	AF163715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
9361	20431	33551	2.69	7.0E-70	11525984	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9361	20431	33552	2.69	7.0E-70	11525984	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9558	22209	35394	0.57	7.0E-70	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
10196	22844	36058	0.62	7.0E-70	AB036429.1	NT	Homo sapiens NDS1 4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
10196	22844	36059	0.62	7.0E-70	AB036429.1	NT	Homo sapiens NDS1 4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
11010	23882	36941	1.54	7.0E-70	11429685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
11010	23882	36942	1.54	7.0E-70	11429685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
11597	24196	37515	1.65	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11597	24196	37516	1.65	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
851	13621	26291	1.77	6.0E-70	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2133	14863	27593	1.21	6.0E-70	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
2513	15230	27970	1.22	6.0E-70	8923899	NT	Homo sapiens CMP-N-acetylneuraminic acid synthase (LOC55907), mRNA
2555	15598	28003	2.18	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2555	15598	28004	2.18	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
11974	24519		2.75	5.0E-70	BE166034.1	EST_HUMAN	MR3-HT0487-150200-115-a06 HT0487 Homo sapiens cDNA
6656	19417	32431	1.03	4.0E-70	T06037.1	EST_HUMAN	EST03828 Fetal brain, Striatum (cat#936206) Homo sapiens cDNA clone HFBIN25
6686	19813	32653	1.78	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
6696	19613	32654	1.78	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
1584	14330	27016	1.23	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071289-011-a12 BT0522 Homo sapiens cDNA
1584	14330	27017	1.23	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071289-011-a12 BT0522 Homo sapiens cDNA
5532	18330	31234	0.65	3.0E-70	11430988	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
5532	18330	31235	0.65	3.0E-70	11430988	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
5555	18642	31581	1.6	3.0E-70	A1831975.1	EST_HUMAN	W190403.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2388005 3'
8280	19053	32031	1.65	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302808 5'
6280	19053	32032	1.65	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302808 5'
10008	22656	35859	0.56	3.0E-70	BE502973.1	EST_HUMAN	h281h02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214418 3'
37	12865	25484	1.2	2.0E-70	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230) mRNA, complete cds
673	13449	26089	14.09	2.0E-70	N42161.1	EST_HUMAN	Y07a10.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HL_RAT P28266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
673	13449	26090	14.09	2.0E-70	N42161.1	EST_HUMAN	Y07a10.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HL_RAT P28266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
689	13464	26113	1.7	2.0E-70	A1246888.1	EST_HUMAN	qx51h01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2004913 3'
1000	13760	26421	1.56	2.0E-70	8923669	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
1161	13915	26578	3.05	2.0E-70	7661983	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
1161	13915	26579	3.05	2.0E-70	7661983	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
1736	14478	27177	1.66	2.0E-70	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2318	15043		5.32	2.0E-70	AA054010.1	EST_HUMAN	Zf48g04.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A
3615	19368	29011	0.78	2.0E-70	H37989.1	EST_HUMAN	P03345 GAG POL YPROTEIN ;
4027	16772	29404	5.06	2.0E-70	M69181.1	NT	Yp58b04.r1 Soares fetal liver spleen 1NPLS Homo sapiens cDNA clone IMAGE:191599 5'
6428	18227	30639	8.7	2.0E-70	X72662.1	NT	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds
5428	18227	30840	8.7	2.0E-70	X72662.1	NT	H. sapiens gene for schwannomin (CS8)
6111	18888	31857	1.27	2.0E-70	AF310105.1	NT	H. sapiens gene for schwannomin (CS8)
6538	19303	32307	1.75	2.0E-70	D12625.1	NT	Human mRNA for NF1 protein isoform (neurofibromin isoform), complete cds
6569	19333	32342	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6569	19333	32343	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8897	17973	30530	1.68	2.0E-70	11422642	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
7303	19886	33062	0.76	2.0E-70	AF288207.1	NT	Homo sapiens cysteinyl-tRNA synthetase mRNA, complete cds, alternatively spliced
7819	20514	33639	9.02	2.0E-70	M21741.1	NT	Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha), exons 4 and 5
8121	20815	33951	0.5	2.0E-70	11423598	NT	Homo sapiens amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen storage disease type III) (AGL), mRNA
8558	21260		0.8	2.0E-70	H47959.1	EST_HUMAN	yp79g02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:183682 5'
9067	21766	34918	0.95	2.0E-70	11526355	NT	Homo sapiens dynactin p62 subunit (LOC51164), mRNA
10038	22896	35804	1.46	2.0E-70	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10500	23146	36373	0.47	2.0E-70	AB033042.1	NT	Homo sapiens mRNA for KIAA1216 protein, partial cds
11005	23677	36933	3.75	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11005	23677	36934	3.75	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11639	24236	37559	7.32	2.0E-70	4503520	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 6 (48KD) (EIF3S6) mRNA
12353	24757	31058	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12353	24757	31059	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3388	16147		2.63	1.0E-70	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM3) mRNA
9180	21850		0.69	1.0E-70	W85795.1	EST_HUMAN	zh55g05.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416024 5'
9698	22349		0.65	1.0E-70	AA442292.1	EST_HUMAN	zv54c03.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757444 5'
10852	23632	36777	7.13	1.0E-70	AV738538.1	EST_HUMAN	AV738538 CB Homo sapiens cDNA clone CBLGB10 5'
5854	18641	31579	7.05	9.0E-71	A1143870.1	EST_HUMAN	qc04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
5854	18641	31580	7.05	9.0E-71	A1143870.1	EST_HUMAN	O14045 PHOSPHOTRANSFERASE. ;
6932	19668	32714	2.23	9.0E-71	A1654903.1	EST_HUMAN	qb04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
11508	19668	32714	4.79	9.0E-71	A1654903.1	EST_HUMAN	O14045 PHOSPHOTRANSFERASE. ;
8968	21658		5.03	8.0E-71	AA174451.1	EST_HUMAN	wb52c05.x1 NCI_OGAP_G08 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
7275	19959	33036	8.9	7.0E-71	AA442230.1	EST_HUMAN	CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
8578	21270	34408	1.02	7.0E-71	AA705457.1	EST_HUMAN	wb52c05.x1 NCI_OGAP_G08 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
11302	23961	37262	2.07	7.0E-71	AL163210.2	NT	CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
2207	14935	27673	5.97	5.0E-71	AF056322.1	NT	zp21d11.r1 Stralagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610101 5' similar to
8968	21658		5.03	8.0E-71	AA174451.1	EST_HUMAN	TR:G1143061 STRAIN XA34 POL. ;
7275	19959	33036	8.9	7.0E-71	AA442230.1	EST_HUMAN	zv60h06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:758075 5'
8578	21270	34408	1.02	7.0E-71	AA705457.1	EST_HUMAN	zf91a06.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462226 3'
11302	23961	37262	2.07	7.0E-71	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2207	14935	27673	5.97	5.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4101	16844	29472	1.36	5.0E-71	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-405 ST0234 Homo sapiens cDNA
5790	18581	31508	2.23	5.0E-71	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6564	19329	32336	1.42	5.0E-71	11641403	NT	Homo sapiens keratin, hair, acidic, 7 (KRT1A7), mRNA
6821	19482	32504	1.43	5.0E-71	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6878	17954	30550	0.82	5.0E-71	AB033108.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
6878	17954	30551	0.82	5.0E-71	AB033108.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
7046	19737	32768	0.76	5.0E-71	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7410	20087	33171	1.47	5.0E-71	M38108.1	NT	Human neurofibromatosis protein type 1 mRNA, 3' end of cds
7607	20273	33381	0.75	5.0E-71	11526445	NT	Homo sapiens MAGUK protein p55T; Protein Associated with Lins 2 (LOC51678), mRNA
7634	20269	33408	22.56	5.0E-71	AF072810.1	NT	Homo sapiens transcription factor WSTF mRNA, complete cds
8421	21114	34251	0.81	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
8421	21114	34252	0.81	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
8811	22462		2.67	5.0E-71	X13467.1	NT	Human PrA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
10530	23227	36461	1.45	5.0E-71	5729600	NT	Homo sapiens [GF-II] mRNA-binding protein 3 (KOC1), mRNA
10901	23581	36831	2.93	5.0E-71	11436514	NT	Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III, neutrophil-activating peptide-2) (PPBP), mRNA
11147	23814	37097	2.57	5.0E-71	11438069	NT	Homo sapiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC63325), mRNA
340	13141	25778	102.7	4.0E-71	AF157626.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
340	13141	25779	102.7	4.0E-71	AF157626.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2889	15656	28289	1.97	4.0E-71	4505680	NT	Homo sapiens plasminogen (PLG) mRNA
4394	17131	29762	3.37	4.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
4928	17654	30266	5.57	4.0E-71	7657602	NT	Homo sapiens putative heme-binding protein (SOUL), mRNA
5069	17788	30404	1.1	4.0E-71	7019352	NT	Homo sapiens cofactor required for Sp1 transcriptional activation, subunit 3 (130kD) (CRSP3), mRNA
7833	20828		1.41	3.0E-71	AU135734.1	EST_HUMAN	AU135734 PLACE1 Homo sapiens cDNA clone PLACE1002775 5'
10591	23285	36523	3.38	3.0E-71	AA557683.1	EST_HUMAN	repetitive element ;
1208	13959	26626	2.02	2.0E-71	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
5237	18043	30672	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
5237	18043	30673	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
6871	17948	30543	0.55	2.0E-71	AL042439.1	EST_HUMAN	DKFZp434D1721_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D1721 5'
8903	21664	34735	0.84	2.0E-71	BF185585.1	EST_HUMAN	7n85c11.x1 NCL CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3571221 3' similar to TR:Q9Z165 Q9Z165 PUTATIVE FOUR REPEAT ION CHANNEL ;

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10485	23131	36357	3.88	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10485	23131	36358	3.88	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10593	23287	36524	3.21	2.0E-71	BE018477.1	EST_HUMAN	bb81a06.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048754 5' similar to SW.R23B_HUMAN P54727 UV EXCISION REPAIR PROTEIN PROTEIN RAD23 HOMOLOG B:
11552	24151	37463	1.36	2.0E-71	BF149173.1	EST_HUMAN	Tm1022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881
11552	24151	37464	1.36	2.0E-71	BF149173.1	EST_HUMAN	Tm1022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881
11576	24175	37490	2.35	2.0E-71	R5526.1	EST_HUMAN	y77c11.1 Soares breast 2NHBst Homo sapiens cDNA clone IMAGE:154772 5'
12038	24581		8.43	2.0E-71	T95489.1	EST_HUMAN	yex3e09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:120520 5'
623	13402	26037	1.83	1.0E-71	A1077927.1	EST_HUMAN	oy15e03.s1 Soares, senescent, fibroblasts, NBHSF Homo sapiens cDNA clone IMAGE:1665916 3' similar to contains LOR1.b2 LOR1 repetitive element:
920	13687	26351	2.37	1.0E-71	7706281	NT	Homo sapiens neuronal cell death-related protein (LOC51616), mRNA
1078	13836	26494	6.15	1.0E-71	AF205890.1	NT	Homo sapiens disabled-2 gene, exons 2 through 15 and complete cds
1317	14066	26740	11.71	1.0E-71	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2074	14806	27536	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2074	14806	27537	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2698	16407	28142	3.91	1.0E-71	7657153	NT	Homo sapiens hairy/enhancer-of-split related with YRPW motif-like (HEYL), mRNA
3493	16249	28903	2.53	1.0E-71	AF119665.1	NT	Homo sapiens inorganic pyrophosphatase mRNA, complete cds
3583	16338	28982	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNK mRNA, complete cds
3583	16338	28983	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNK mRNA, complete cds
3639	16392	29031	0.98	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3639	16392	29032	0.98	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3724	16477	29114	2	1.0E-71	AF218904.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 19
4437	17173	29801	1.92	1.0E-71	D28476.1	NT	Human mRNA for KIAA0045 gene, complete cds
4552	17287	29916	0.98	1.0E-71	H23176.1	EST_HUMAN	ym56h10.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:52528 5'
6643	19405	32420	1.07	1.0E-71	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
6986	19579	32726	1.39	1.0E-71	AB011131.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
7211	18996	32971	13.35	1.0E-71	U80753.1	NT	Homo sapiens CAGL79 mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8046	20740	33872	0.69	1.0E-71	AF105287.1	NT	Homo sapiens glycican-6 (GPC6) mRNA, complete cds
8089	20763	33891	2.26	1.0E-71	11425430	NT	Homo sapiens myomesin (M-protein) 2 (168kD) (MYOM2), mRNA
8345	21038	34174	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
8345	21038	34175	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
9128	21816	34982	0.78	1.0E-71	S72393.1	NT	CSNK2A1=casein kinase II (CKII) subunit alpha [human, Genomic, 18862 nt]
9908	22857	35752	7.89	1.0E-71	AY007843.1	NT	Homo sapiens cytochrome c oxidase subunit VI-related protein gene, complete cds
9968	22816		2.05	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10438	23082	36309	1.45	1.0E-71	11433142	NT	Homo sapiens activated leucocyte cell adhesion molecule (ALCAM), mRNA
10694	23375		2.58	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10798	23478	36720	2.19	1.0E-71	11418903	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
11093	23763	37037	1.73	1.0E-71	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11093	23763	37038	1.73	1.0E-71	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
12401	24786		4.96	1.0E-71	AB011399.1	NT	Homo sapiens gene for AF-8, complete cds
398	13183	25830	1.72	9.0E-72	AI857835.1	EST_HUMAN	wk95g03.x1 NCI CGAP Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to (Tr:O86705 O86705) HYPOTHETICAL 38.8 KD PROTEIN, contains Alu repetitive element;
398	13183	25831	1.72	9.0E-72	AI857835.1	EST_HUMAN	wk95g03.x1 NCI CGAP Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to (Tr:O86705 O86705) HYPOTHETICAL 38.8 KD PROTEIN, contains Alu repetitive element;
6020	18801	31762	0.97	8.0E-72	BF035752.1	EST_HUMAN	601498747F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3862451 5'
4092	16634	29458	2.63	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	16634	29459	2.63	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	16634	29460	2.63	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
7024	19716	32773	2.99	7.0E-72	S41684.1	NT	(pseudogene) PTMAP2=prothymosin alpha [human, Genomic, 1192 nt, segment 2 of 3]
12820	24868		1.9	7.0E-72	F28259.1	EST_HUMAN	HSPD13670 HK3 Homo sapiens cDNA clone s4000051G02
8283	20877		4.14	8.0E-72	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
60	12889	25521	1.06	5.0E-72	BF333707.1	EST_HUMAN	QVO-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
60	12889	25522	1.06	5.0E-72	BF333707.1	EST_HUMAN	QVO-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
61	12889	25521	3.47	5.0E-72	BF333707.1	EST_HUMAN	QVO-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
61	12889	25522	3.47	5.0E-72	BF333707.1	EST_HUMAN	QVO-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
1117	13874		3.62	5.0E-72	L11645.1	NT	Homo sapiens alpha-tubulin mRNA, complete cds
6951	19551	32581	1.59	5.0E-72	AU128594.1	EST_HUMAN	AU128584 NT2RP2 Homo sapiens cDNA clone NT2RP2003761 5'



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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7731	20394	33509	0.73	5.0E-72	AA316632.1	EST_HUMAN	EST188312 HCC cell line (metastasis to liver in mouse)    Homo sapiens cDNA 5' end similar to similar to FAC1
8675	21367	34514	3.71	5.0E-72	AW161274.1	EST_HUMAN	au80c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to TR:Q99785 Q99785 HYPOTHETICAL 32.4 KD PROTEIN: contains element MSR1 repetitive element ;
9861	22511	35708	0.89	5.0E-72	AV724632.1	EST_HUMAN	AV724632 HTB Homo sapiens cDNA clone HTBAKB01 5'
11208	23871	37157	3.45	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-d05 BT0598 Homo sapiens cDNA
11208	23871	37158	3.45	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-d05 BT0598 Homo sapiens cDNA
11643	24240	37563	1.61	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806 5'
11643	24240	37564	1.61	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806 5'
12107	23388	37566	2.82	5.0E-72	BE926645.1	EST_HUMAN	QV1-BT0632-280800-342-a10 BT0632 Homo sapiens cDNA
5378	18178	30868	0.62	4.0E-72	AF170025.1	NT	Homo sapiens zinc finger protein ZFP-95 (ZFP95) mRNA, alternatively spliced, complete cds
6462	19229	32230	0.68	4.0E-72	T87947.1	EST_HUMAN	y483a01.t1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115762 5' similar to SP:A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
7308	19992	33069	2.03	4.0E-72	5729867	NT	Homo sapiens hec1 domain and RLD 2 (HERC2), mRNA
9684	22336	35531	1.3	4.0E-72	8923669	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
10292	22939	36152	0.48	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10292	22939	36153	0.48	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10220	22967	36186	0.92	4.0E-72	AI248796.1	EST_HUMAN	q167c02.x1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849730 3' similar to TR:Q14498 Q14498 SPLICING FACTOR, [1]; contains Alu repetitive element; contains element L1 repetitive element ;
11255	23917	37210	1.57	4.0E-72	AA465388.1	EST_HUMAN	aa23f09.s1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11255	23917	37211	1.57	4.0E-72	AA465388.1	EST_HUMAN	aa23f09.s1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11514	24114	37424	7.78	4.0E-72	H79421.1	EST_HUMAN	y428a03.t1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:235084 5'
11637	24234	37555	1.75	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11637	24234	37556	1.75	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11680	24275	37597	2.16	4.0E-72	T81910.1	EST_HUMAN	y428a09.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109649 3'
12453	24822	31025	8.92	4.0E-72	AJ27546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
18	12846	25459	0.69	3.0E-72	5031979	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
883	13652		1.52	3.0E-72	AA723823.1	EST_HUMAN	af63a06.s1 Soares testis NHT Homo sapiens cDNA clone 1310290 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1132	13888	26546	6.64	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1132	13888	26547	6.64	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1171	13925	26587	0.72	3.0E-72	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1171	13925	26588	0.72	3.0E-72	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1510	14256	26942	1.24	3.0E-72	BE242181.1	EST_HUMAN	TCAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1252
3072	15838	28481	11.45	3.0E-72	AJ290043.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
3273	16034	28684	2.17	3.0E-72	8923648	NT	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA
3803	16555	29186	2.69	3.0E-72	S77589.1	NT	TCR V delta 2 C alpha -T-cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction) [human, precursor B-cell line REH, mRNA Partial, 211 nt]
4508	17243	29878	3.12	3.0E-72	11416198	NT	Homo sapiens hypothetical protein (FLJ11127), mRNA
4715	17447	30079	1.07	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4715	17447	30080	1.07	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4862	17691	30215	0.95	3.0E-72	AI654337.1	EST_HUMAN	wb31a08.XT NCI CGAP_G06 Homo sapiens cDNA clone IMAGE:2307254 3'
5433	18232	31621	1.27	3.0E-72	4759093	NT	Homo sapiens semaphorin W (SEMAW) mRNA
5891	18676	31622	2.1	3.0E-72	AF073367.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
5891	18676	31622	2.1	3.0E-72	AF073367.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6074	18853	31819	4.82	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6074	18853	31820	4.82	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6516	19281	32284	3.63	3.0E-72	4826987	NT	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA
7485	20157	33249	2.15	3.0E-72	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nrip) and survival motor neuron protein (smn) genes, complete cds
8075	20769	33898	0.96	3.0E-72	5031892	NT	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA
10331	22978	36198	1.2	3.0E-72	X98289.1	NT	Homo sapiens S100A12 gene for Calgranulin C, exon 2 and joined cds
5869	18856	31597	1.91	2.0E-72	11426671	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA
8993	21883	34832	0.71	2.0E-72	BF308560.1	EST_HUMAN	607890416F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
8993	21883	34833	0.71	2.0E-72	BF308560.1	EST_HUMAN	607890416F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
10640	23331	36569	2.47	2.0E-72	AA789277.1	EST_HUMAN	q128b03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391609 3' similar to gb:U02067 H.sapiens mRNA for 7SL RNA pseudogene (HUMAN);
12449	24819	31022	5.75	2.0E-72	AF182714.1	NT	Rattus norvegicus putative phosphate/phosphoenolpyruvate translocator mRNA, complete cds
2068	14800	27527	1.19	1.0E-72	AA846225.1	EST_HUMAN	aiB3d02.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1387395 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5680	18473	31390	3.63	1.0E-72	7657676	NT	Homo sapiens vacuolar protein sorting 41 (yeast homolog) (VPS41), mRNA
6464	19231	32231	1.31	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6464	19231	32232	1.31	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6536	26093	32306	1.2	1.0E-72	AV751818.1	EST_HUMAN	AV751818 NPJ Homo sapiens cDNA clone NPDAIE11 5'
7537	20207	33304	3.7	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
7537	20207	33306	3.7	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
9491	22144	35324	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
9491	22144	35325	10.28	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
1444	14191	26875	1.35	9.0E-73	AW374968.1	EST_HUMAN	MRO-CT0063-071099-002-h11 CT0063 Homo sapiens cDNA
10871	23551		15.11	9.0E-73	11424099	NT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
1016	13774	26434	2.29	8.0E-73	AW071755.1	EST_HUMAN	vs55c06.x1 NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2501098 3' similar to TR:Q59050
5493	18292	31190	1	8.0E-73	4505798	NT	Q59050 HYPOTHETICAL PROTEIN MJ1656 ;
6478	19245	32243	5.16	8.0E-73	11426469	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7994	20689	33817	2.87	8.0E-73	AF113129.1	NT	Homo sapiens lysosome homologue (LOC57151), mRNA
						NT	Homo sapiens vacuolar ATPase isoform VA88 mRNA, complete cds
9253	21932	35105	6.25	8.0E-73	BE019900.1	EST_HUMAN	bb62a06.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb:U04098 cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb:M21495 Mouse cytoskeletal gamma-actin mRNA, complete cds (MOUSE);
9640	22292	35484	1.92	8.0E-73	11526037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
9640	22292	35485	1.92	8.0E-73	11526037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
10507	23153	36379	0.45	8.0E-73	4507628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNP1) mRNA
11573	24172	37486	1.28	8.0E-73	11418786	NT	Homo sapiens DEAD-box protein (HAGE), mRNA
12506	24859	31012	3.31	8.0E-73	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
1112	13869	26528	0.89	7.0E-73	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3295	16056	28705	1.18	7.0E-73	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
4891	17618		1.35	7.0E-73	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C082
154	12969		3.07	6.0E-73	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
7072	19763	32827	3.48	6.0E-73	BE166574.1	EST_HUMAN	QVQ-HT0494-020300-137-d03 HT0494 Homo sapiens cDNA
5173	17982	30497	2.2	4.0E-73	11422159	NT	Homo sapiens HELG protein (FAM441), mRNA
1318	14057	26741	2.77	3.0E-73	AW843786.1	EST_HUMAN	CMO-CN0044-260100-164-f08 CN0044 Homo sapiens cDNA
6598	19361	32374	0.71	3.0E-73	AA136403.1	EST_HUMAN	zn95e04.s1 Stragene fetal retina 937202 Homo sapiens cDNA clone IMAGE:565950 3' similar to
8556	21348	34492	0.65	3.0E-73	AV729428.1	EST_HUMAN	gb:Z23064 cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN);
8556	21348	34493	0.65	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'
						EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11611	24209		1.61	3.0E-73	AI004040.1	EST_HUMAN	cut11d02.x1 Soeres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1625955 3'
12734	25003		1.5	3.0E-73	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C046
12738	25005		1.54	3.0E-73	AW89081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
831	13601	26271	1.43	2.0E-73	AF198987.1	NT	Homo sapiens BASS1 (BASS1) mRNA, partial cds
1939	14874		1.78	2.0E-73	AW89081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
2298	15021		1.3	2.0E-73	U01317.1	NT	Human beta globin region on chromosome 11
3177	15940	28590	3.98	2.0E-73	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3638	16294	28943	0.91	2.0E-73	7669539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3638	16294	28944	0.91	2.0E-73	7669539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
4401	17138		1.03	2.0E-73	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
6344	19114	32102	0.89	2.0E-73	AF086824.1	NT	Mus musculus thofrac-interacting citron kinase (Crik) mRNA, complete cds
6344	19114	32103	0.89	2.0E-73	AF086824.1	NT	Mus musculus thofrac-interacting citron kinase (Crik) mRNA, complete cds
6399	19158	32159	6.27	2.0E-73	AB048811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6800	19363	32376	1.27	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6800	19363	32377	1.27	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
7699	20362	33476	0.69	2.0E-73	MB4048.1	NT	Human peripheral myelin protein 22 mRNA, complete cds
7701	20364	33478	0.73	2.0E-73	AB037750.1	NT	Homo sapiens mRNA for KIAA1329 protein, partial cds
9432	22110	36284	0.52	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
9432	22110	36285	0.52	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
10322	22669	36189	1.21	2.0E-73	4504168	NT	Homo sapiens glutathione synthetase (GSS) mRNA
10394	23040	36257	1.31	2.0E-73	11496980	NT	Homo sapiens supervillin (SVL), transcript variant 1, mRNA
10394	23040	36258	1.31	2.0E-73	11496980	NT	Homo sapiens supervillin (SVL), transcript variant 1, mRNA
10987	23662	36917	3.37	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
10987	23662	36918	3.37	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11020	23692	36955	1.82	2.0E-73	AB028982.1	NT	Homo sapiens mRNA for KIAA1059 protein, partial cds
12293	14874		1.83	2.0E-73	AW89081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
1776	14518	27221	1.71	1.0E-73	AU121595.1	EST_HUMAN	AU121595 MAYMA1 Homo sapiens cDNA clone MAMMA1000490 5'
2488	15205	27948	1.12	1.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
6266	19039	32015	1.07	1.0E-73	BE151283.1	EST_HUMAN	GM1-HT0282-111199-042-H10 HT0282 Homo sapiens cDNA
9399	22061	35230	1.37	1.0E-73	AH147427.1	EST_HUMAN	qg61b07.11 Soeres_leslis_NHT Homo sapiens cDNA clone IMAGE:1839637 5' similar to contains element MER22 repetitive element
11428	23195	36428	2.95	1.0E-73	BE388477.1	EST_HUMAN	6012/6071F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3617105 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
723	13497	26150	1.06	8.0E-74	4557426	NT	Homo sapiens CD39-like 4 (CD39L4) mRNA
5824	18613	31544	2.2	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
5824	18613	31545	2.2	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
10791	23474		1.36	8.0E-74	N52239.1	EST_HUMAN	ly46g10, s1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:245828 3'
1842	14677	27390	2.59	7.0E-74	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
3322	16082	28732	1.08	7.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9142	21873	35038	2.83	7.0E-74	BE987432.1	EST_HUMAN	601849284F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3932997 5'
12805	24858	31011	5.51	7.0E-74	BE266305.1	EST_HUMAN	601191927F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535855 5'
1100	13858	26518	2.4	6.0E-74	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
2314	15039	27776	11.78	6.0E-74	BE398280.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605493 5'
2314	15039	27777	11.78	6.0E-74	BE398280.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605493 5'
2867	15634	28279	1.32	6.0E-74	AW014039.1	EST_HUMAN	U1-H-B10-aah-h-03-Q-U1.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
2867	15634	28280	1.32	6.0E-74	AW014039.1	EST_HUMAN	U1-H-B10-aah-h-03-Q-U1.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
3700	16453	29092	1.34	6.0E-74	BE048846.1	EST_HUMAN	h54611.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3'
3700	16453	29093	1.34	6.0E-74	BE048846.1	EST_HUMAN	h54611.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3'
5281	18086	30744	3.02	6.0E-74	11056013	NT	Homo sapiens actin filament associated protein (AFAP), mRNA
885	13654	26322	7.33	5.0E-74	AW020986.1	EST_HUMAN	df17c09.y1 Merton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483704 5'
2706	15413		2.62	5.0E-74	AW362756.1	EST_HUMAN	PMO-CT0289-271099-001-h07 CT0289 Homo sapiens cDNA
5322	18125	30784	1.86	5.0E-74	11425417	NT	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
5703	18487	31419	12.98	5.0E-74	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
5748	18540	31482	7.41	5.0E-74	4507866	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
5819	18608	31538	1.84	5.0E-74	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
5819	18608	31537	1.84	5.0E-74	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6795	19539	32567	5.98	5.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7569	19539	32567	0.6	5.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7936	20631	33758	2.78	5.0E-74	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
10636	23328	36565	2.56	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
10636	23328	36566	2.56	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
10757	23442	36687	2.68	5.0E-74	5728766	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
273	13080	25723	1.79	4.0E-74	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
832	13602	26272	5.15	4.0E-74	AB028942.1	NT	Homo sapiens mRNA for KIAA1018 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1955	14890	27403	2.02	4.0E-74	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1955	14890	27404	2.02	4.0E-74	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2065	14797	27523	2.75	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2065	14797	27524	2.75	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2128	14859	27589	1.99	4.0E-74	AB032984.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2427	15148	27882	27.23	4.0E-74	AJ006976.1	NT	Homo sapiens PLP gene
3088	15853	28495	5.2	4.0E-74	AJ006976.1	NT	Homo sapiens PLP gene
3518	16274	28928	0.82	4.0E-74	AL183210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4041	16786	28414	1.03	4.0E-74	AL183247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4520	17255	28889	2.23	4.0E-74	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569) mRNA
4573	17308	28937	0.88	4.0E-74	217227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
5015	17738	30343	0.96	4.0E-74	4504326	NT	Homo sapiens hydroxacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thioesteroyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
5015	17738	30344	0.96	4.0E-74	4504326	NT	Homo sapiens hydroxacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thioesteroyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
8448	21140		8.45	3.0E-74	AA300378.1	EST_HUMAN	EST13131 Thymus tumor III Homo sapiens cDNA 5' end similar to similar to ribosomal protein L37
8473	21165	34309	0.79	3.0E-74	9866912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
9272	22028	35196	2.99	3.0E-74	M78984.1	EST_HUMAN	EST01132 Subtracted Hippocampus, Striatum (cat. #936205) Homo sapiens cDNA clone HHCPF91
10237	22885	36099	2.68	3.0E-74	AA601493.1	EST_HUMAN	not7q05.s1 NCL_GCAP_Phe1 Homo sapiens cDNA clone IMAGE:1100884 3'
938	13705	28370	175.01	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
938	13705	28371	175.01	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
1152	13907	28570	1.11	2.0E-74	AF020092.1	NT	Human endogenous retrovirus HERV-K-T47D
1222	13972	28644	1.36	2.0E-74	A1950528.1	EST_HUMAN	wx51607.x1 NCL_GCAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95, contains element MER22 repetitive element
1590	14336	27024	3.79	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
1590	14336	27025	3.79	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
2609	15321	28063	0.94	2.0E-74	A1557280.1	EST_HUMAN	PT2.1_15_G11.1 tumor2 Homo sapiens cDNA 3'
4945	17672	30281	2.44	2.0E-74	AL355082.1	NT	Novel human gene mapping to chromosome 22
4945	17672	30282	2.44	2.0E-74	AL355082.1	NT	Novel human gene mapping to chromosome 22

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4949	17676	30286	1.11	2.0E-74	J02963.1	NT	Human platelet glycoprotein IIB mRNA, 3' end
5709	25074	31424	2.5	2.0E-74	BE711134.1	EST_HUMAN	RC6-HT0678-220500-011-C03 HT0678 Homo sapiens cDNA
5806	25077	31521	1.89	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/INY-CO-38), mRNA
5806	25077	31522	1.89	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/INY-CO-38), mRNA
5876	25077	31521	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/INY-CO-38), mRNA
5876	25077	31522	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/INY-CO-38), mRNA
7003	19695	32748	0.92	2.0E-74	BF030788.1	EST_HUMAN	601557524F1 NIH_MGC 58 Homo sapiens cDNA clone IMAGE:3827549 5'
7841	20536	33663	1.29	2.0E-74	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
9282	22036	35208	6.06	2.0E-74	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
12234	24687	25909	3.95	2.0E-74	AA196181.1	EST_HUMAN	zp86a06.s1 Stragatena muscle 937209 Homo sapiens cDNA clone IMAGE:628018 3'
52	12881	25909	1.89	1.0E-74	7657334	NT	Homo sapiens Misshapen/NIK-related kinase (MINK), mRNA
328	13129	25764	5.02	1.0E-74	AW816405.1	EST_HUMAN	QV4-S10234-181199-037-005 ST0234 Homo sapiens cDNA
487	13272	25907	1.05	1.0E-74	8922829	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
493	13277	25912	13.6	1.0E-74	X02344.1	NT	Homo sapiens beta 2 gene
587	13367	25995	1.47	1.0E-74	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259), mRNA
765	13338	26197	1.81	1.0E-74	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
979	13744	26406	2.27	1.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2223	14951	27690	4.39	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
3136	15900	28545	3.55	1.0E-74	4758697	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
3366	16125	28762	0.9	1.0E-74	AA258549.1	EST_HUMAN	zr60c01.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3366	16125	28783	0.9	1.0E-74	AA258549.1	EST_HUMAN	zr60c01.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3901	16651	29292	0.86	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3901	16651	29293	0.86	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3950	16700	29338	4.81	1.0E-74	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4042	16787	29415	1.15	1.0E-74	BE083080.1	EST_HUMAN	RC2-BT0642-270300-019-06 BT0642 Homo sapiens cDNA
6805	19368	32380	1.86	1.0E-74	M89914.1	NT	Human neurofibromin (NF1) gene, complete cds
7526	20197	33291	1.15	1.0E-74	11417977	NT	Homo sapiens KIAA0852 protein (KIAA0852), mRNA
7955	20650	33773	1.13	1.0E-74	BE649105.1	EST_HUMAN	601070088F1 NIH_MGC 12 Homo sapiens cDNA clone IMAGE:3456260 5'
7955	20650	33774	1.13	1.0E-74	BE649105.1	EST_HUMAN	601070088F1 NIH_MGC 12 Homo sapiens cDNA clone IMAGE:3456260 5'
8704	21396	34543	4.92	1.0E-74	AF214562.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8733	21425	34571	0.66	1.0E-74	BF351961.1	EST_HUMAN	MRO-HT0559-230500-021-a03 HT0559 Homo sapiens cDNA
10140	22788	36001	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10140	22788	36002	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10360	23026	36241	1.38	1.0E-74	11420549	NT	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11885	24498	37800	2.92	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
11965	24513		5.01	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12103	14951	27690	1.58	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12567	24897		1.53	1.0E-74	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2650	15360		3.68	8.0E-75	AF176228.1	NT	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B) mRNA, complete cds
12254	24700		1.86	8.0E-75	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2319	15044	27781	1.47	6.0E-75	AI817415.1	EST_HUMAN	wk38a08.x1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:2417654 3' similar to gb:M14123_cds4
7688	20352	33466	0.61	5.0E-75	AA573446.1	EST_HUMAN	RETROVIRUS-RELATED POLYPROTEIN (HUMAN);
7688	20352	33467	0.61	5.0E-75	AA573446.1	EST_HUMAN	nk99d03.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:1028933 3'
8808	21498	34643	0.94	5.0E-75	BE272325.1	EST_HUMAN	nk99d03.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:1028933 3'
8016	21705	34855	0.6	5.0E-75	AA132611.1	EST_HUMAN	601126088F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:2989965 5'
9093	21762	34946	0.78	5.0E-75	BE561655.1	EST_HUMAN	z017c08.11 Stratagene cdon (#937204) Homo sapiens cDNA clone IMAGE:587174 5'
9093	21782	34947	0.78	5.0E-75	BE561655.1	EST_HUMAN	601346908F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
9273	22027	35197	1.53	5.0E-75	BF690254.1	EST_HUMAN	601346908F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
10134	22782	35993	2.39	5.0E-75	AI638623.1	EST_HUMAN	602186616T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4296738 3'
110	12931	25588	2.16	4.0E-75	BE081333.1	EST_HUMAN	tt31c12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2242390 3' similar to TR:P97361 P97361
446	13232		1.02	4.0E-75	N36757.1	EST_HUMAN	HYPOTHETICAL 20.1 KD PROTEIN ;
1759	14501	27202	1.5	4.0E-75	AW897230.1	EST_HUMAN	QV1-BT0632-210200-079-e02 BT0632 Homo sapiens cDNA
2853	15621	28289	4.89	4.0E-75	BE409464.1	EST_HUMAN	yx9d08.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:269055 5'
3492	18248	28902	0.94	4.0E-75	BE409464.1	EST_HUMAN	CM0-NN0067-150400-335-at1 NN0057 Homo sapiens cDNA
5442	18241	31128	0.56	4.0E-75	8922837	NT	601303966F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638344 5'
5442	18241	31129	0.56	4.0E-75	11417946	NT	Homo sapiens hypothetical protein FLJ10747 (FLJ10747), mRNA
6176	18953	31926	5.78	4.0E-75	5579457	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6661	19421	32436	2.26	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6661	19421	32437	2.26	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
10584	23279	36517	18.12	4.0E-75	7669505	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
982	13747	26409	3.72	3.0E-75	AF157623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
983	13747	26408	2.41	3.0E-75	AF157623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1828	14587	27279	2.76	3.0E-75	AB011153.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
2105	14836	27570	1.11	3.0E-75	4507334	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
2422	15143	27878	5.86	3.0E-75	4759153	NT	Homo sapiens synaptojanin 1 (SYNJ1), mRNA



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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3021	15787	28434	0.97	3.0E-75	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3184	15947	28597	1.32	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
3345	16104	28757	0.75	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3345	16104	28758	0.75	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4147	18889	29521	3.27	3.0E-75	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4404	17141	29769	0.73	3.0E-75	7662421	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
5171	17880	30493	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
5171	17880	30494	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
6671	19588	32623	1.68	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6671	19588	32624	1.68	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7035	19727	32783	4.56	3.0E-75	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7035	19727	32784	4.56	3.0E-75	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7522	20193	33284	2.52	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
7522	20193	33285	2.52	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
8883	21574	34717	1.21	3.0E-75	11420804	NT	Homo sapiens snail 1 (Drosophila homolog), zinc finger protein (SNAIL), mRNA
9577	22230	35414	0.77	3.0E-75	11420222	NT	Homo sapiens Drosophila Kelch like protein (DKELOHL), mRNA
10440	23086	36314	2.28	3.0E-75	11436430	NT	Homo sapiens synuclein, alpha (non A4 component of amyloid precursor) (SNCA), mRNA
5587	18384		1.41	2.0E-75	AV734680.1	EST_HUMAN	AV734680 cdA Homo sapiens cDNA clone cdABED02 5'
8648	21340	34484	2.45	2.0E-75	A1311783.1	EST_HUMAN	qc91e02.x1 NCL_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1915898 3' similar to TR:Q68386 Q68386
2076	14808	27539	1.12	1.0E-75	4506328	NT	POUENF GENE;
2076	14808	27540	1.12	1.0E-75	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2301	15026	27762	6.68	1.0E-75	AW168135.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2947	15713	28366	3.27	1.0E-75	X62221.1	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
8313	21006		4.27	1.0E-75	AA399270.1	EST_HUMAN	yg60d02.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2632707 3' similar to contains P TR7.t1
9328	21995	35167	3.75	1.0E-75	BF313645.1	EST_HUMAN	PTR7 repetitive element;
9328	21995	35168	3.75	1.0E-75	BF313645.1	EST_HUMAN	H. sapiens ERCC2 gene, exons 1 & 2 (partial)
10797	23480		10.83	1.0E-75	AA664377.1	EST_HUMAN	z657h03.s1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:726485 3' similar to gb:M13832 40S
11033	23704	36972	2.56	1.0E-75	AF223391.1	NT	RIBOSOMAL PROTEIN S17 (HUMAN);
							601900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128678 5'
							601900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128678 5'
							ac77b08.s1 Stragene lung (#937210) Homo sapiens cDNA clone IMAGE:368599 3'
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11880	24444	37785	1.38	1.0E-75	AA417112.1	EST_HUMAN	zu04b03.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:730829 5'
12152	17912	30598	1.64	1.0E-75	BE884192.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'
43	12872	25493	1.24	9.0E-76	AI852648.1	EST_HUMAN	w630b10.x1 NCL_CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:O75235 O75235 TRAP1 ;
43	12872	25494	1.24	9.0E-76	AI852648.1	EST_HUMAN	w630b10.x1 NCL_CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:O75235 O75235 TRAP1 ;
9801	22452	35654	43.62	9.0E-76	MT2937.1	NT	Human ferritin Heavy subunit mRNA, complete cds
917	13684	26347	1.06	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
917	13684	26348	1.06	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
2910	16678	28325	1	8.0E-76	7708724	NT	Homo sapiens mediator (Sur2) mRNA
6079	18858	31825	6.36	8.0E-76	11421442	NT	Homo sapiens LIM domain kinase 1 (LIMK1), mRNA
7388	20067	33145	1.26	8.0E-76	11435215	NT	Homo sapiens serine/threonine kinase 2 (STK2), mRNA
7465	20139	33231	0.86	8.0E-76	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8195	20889	34027	0.67	8.0E-76	11416961	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8995	21685	34835	0.55	8.0E-76	AB046764.1	NT	Homo sapiens mRNA for KIAA1544 protein, partial cds
10277	22925	36137	1.35	8.0E-76	MT13792.1	NT	Human adenosine deaminase (ADA) gene, complete cds
10364	23260	36497	4.81	8.0E-76	10442821	NT	Homo sapiens baculoviral IAP repeat-containing 6 (BIRC6), mRNA
12491	24849		2	8.0E-76	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
759	13531	26191	1.41	7.0E-76	5016092	NT	Homo sapiens dihydropyrimidine dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
3288	16049	28697	2.97	7.0E-76	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
3294	16055	28704	7.55	7.0E-76	4505052	NT	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products
3330	16090	28743	0.93	7.0E-76	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
4338	17077	29705	4.73	7.0E-76	4507184	NT	Homo sapiens septaplerin reductase (7,8-dihydropterin:NADP+ oxidoreductase) (SPR) mRNA
4338	17077	29706	4.73	7.0E-76	4507184	NT	Homo sapiens septaplerin reductase (7,8-dihydropterin:NADP+ oxidoreductase) (SPR) mRNA
1212	13962		31.63	6.0E-76	BE396253.1	EST_HUMAN	601312019F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3698757 5'
11442	23209	36440	3.76	6.0E-76	BE273201.1	EST_HUMAN	601142253F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506029 5'
1936	14671	27385	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1936	14671	27386	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1936	14671	27387	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5188	17998	30512	1.26	4.0E-76	BE783412.1	EST_HUMAN	60147125F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874470 5'
8923	22571	33768	6.42	4.0E-76	D81625.1	EST_HUMAN	HUM178301B Human fetal brain (Tfujwara) Homo sapiens cDNA clone GEN-178G01 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9923	22571	35769	6.42	4.0E-76	D81625.1	EST_HUMAN	HUM176G01B Human fetal brain (TFujiiwara) Homo sapiens cDNA clone GEN:178G01 5'
615	13393	26026	3.2	3.0E-76	BF516262.1	EST_HUMAN	UI-HBW1-enz-b-04-0-JL.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
615	13393	26027	3.2	3.0E-76	BF516262.1	EST_HUMAN	UI-HBW1-enz-b-04-0-JL.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
1594	14340	27029	3.26	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1594	14340	27030	3.28	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3422	16179	28828	4.96	3.0E-76	BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
3422	16179	28829	4.96	3.0E-76	BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
4058	18803	29434	1.07	3.0E-76	BE348693.1	EST_HUMAN	h67112.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3151823 3' similar to TR:O94888 O94888
5158	17891	37796	2.07	3.0E-76	Z41314.1	EST_HUMAN	KIAA0792 PROTEIN ;
5946	18441	31354	1.09	3.0E-76	AA16061.1	EST_HUMAN	HSC2QD042 normalized infant brain cDNA Homo sapiens cDNA clone c-zqd04 3'
6275	19048	32025	9.57	3.0E-76	AF266598.1	NT	z673c07.r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592524 5' similar to
8050	20744	33877	0.88	3.0E-76	N42671.1	EST_HUMAN	gbl.L32976 MIXED LINEAGE KINASE 1 (HUMAN);
9818	22269	35456	3.34	3.0E-76	AW299353.1	EST_HUMAN	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
9641	22263	35486	0.96	3.0E-76	AA442309.1	EST_HUMAN	y22g10.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:271842 5'
9641	22263	35487	0.99	3.0E-76	AA442309.1	EST_HUMAN	x649h01.x1 NCI_CGAP_Ki671 Homo sapiens cDNA clone IMAGE:2773009 3'
11876	25191	30812	1.93	3.0E-76	AW967084.1	EST_HUMAN	z64d11.l1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757461 5'
11979	25398	30602	4.86	3.0E-76	AW956455.1	EST_HUMAN	z64d11.l1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757481 5'
275	13082	25725	1.59	2.0E-76	D84295.1	NT	EST360059 MAGe resequences, MAGJ Homo sapiens cDNA
333	13134	25768	4.39	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
333	13134	25769	4.39	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
448	13234		1.19	2.0E-76	4557662	NT	Human mRNA for possible protein TPRDII, complete cds
576	13356	25984	1.08	2.0E-76	4503944	NT	Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA
1008	13708	26430	1	2.0E-76	4758053	NT	Homo sapiens glucagon (GCG) mRNA
1528	14273	26860	1.91	2.0E-76	4504028	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
1528	14273	26861	1.91	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1921	14658	27369	0.91	2.0E-76	AA253954.1	EST_HUMAN	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
2848	15614	28261	3.34	2.0E-76	P23266	SWISSPROT	z660h11.s1 Stratagene schizop brain S11 Homo sapiens cDNA clone IMAGE:701925 3'
							OLFACTORY RECEPTOR-LIKE PROTEIN F5
3291	18052	28701	2.06	2.0E-76	AA445992.1	EST_HUMAN	z64e02.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:780988 3' similar to SW:ITB5_HUMAN
3291	18052	28702	2.06	2.0E-76	AA445992.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR.;
							z64e02.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:780988 3' similar to SW:ITB5_HUMAN
							P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR.;

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Probe SEQ ID NO:	Exon ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3469	16225	28879	0.97	2.0E-76	A1821149.1	EST_HUMAN	ac83602.y6 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:869183 5' similar to TR:O14591 O14591 SIMILARITY TO P22059:
4114	13082	25725	1.23	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
4895	17622	30240	6.21	2.0E-76	AW879618.1	EST_HUMAN	QV3-OT0028-220300-132-b11 OT0028 Homo sapiens cDNA
5055	17714	30390	1.49	2.0E-76	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
5226	18033		1.6	2.0E-76	AF127845.1	NT	Gorilla gorilla olfactory receptor (GGOT8) gene, partial cds
5531	18329	31233	6.47	2.0E-76	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
7334	20018	33064	0.75	2.0E-76	11426908	NT	Homo sapiens A kinase (PRKA) anchor protein 10 (AKAP10), mRNA
7560	20230	33033	1.91	2.0E-76	11427410	NT	Homo sapiens TPCR86 protein (HSTPCR86P), mRNA
10192	22830	36045	3.53	2.0E-76	11437211	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC83150), mRNA
10839	23521	36763	3.58	2.0E-76	7549807	NT	Homo sapiens HIRA interacting protein 4 (dhaJ-like) (HIRIP4), mRNA
4265	17006	29638	2.38	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
4265	17006	29639	2.38	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5362	18164	30849	6.12	1.0E-76	BE796537.1	EST_HUMAN	607559396F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
6150	18927		0.72	1.0E-76	AA33207.1	EST_HUMAN	EST37301 Embryo, 8 week 1 Homo sapiens cDNA 5' end
6925	19486	32508	4.53	9.0E-77	BE889525.1	EST_HUMAN	607512435F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913737 5'
12844	24941		1.4	9.0E-77	BE410354.1	EST_HUMAN	607302333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636753 5'
182	12984	25633	0.92	8.0E-77	R83144.1	EST_HUMAN	Yp11h02.1 Soares breast 3NbHBst Homo sapiens cDNA clone IMAGE:187155 5' similar to
4486	17221	28849	1.09	8.0E-77	BF205181.1	EST_HUMAN	SP-ANKB_HUMAN Q01484 ANKYRIN, BRAIN VARIANT 1:
5366	18168	30854	1.74	8.0E-77	4506230	NT	607866928F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5'
11360	24048	37551	1.91	8.0E-77	AA019770.1	EST_HUMAN	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mox34 homolog) (PSMD7) mRNA
11360	24048	37552	1.91	8.0E-77	AA019770.1	EST_HUMAN	ze62e02.11 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'
12620	24925	31008	4.02	8.0E-77	R00245.1	EST_HUMAN	ze62e02.11 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'
1922	14659	27370	2.4	7.0E-77	AA625755.1	EST_HUMAN	ye6904.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains MER10 repetitive element:
2411	15132	27668	2.52	7.0E-77	4505944	NT	ze62e02.11 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains MER10 repetitive element:
2411	15132	27669	2.52	7.0E-77	4505944	NT	ze62e02.11 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains MER10 repetitive element:
266	13064	25703	6.53	6.0E-77	4504600	NT	ze62e02.11 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains MER10 repetitive element:
1534	14281	26669	3.22	6.0E-77	A1204066.1	EST_HUMAN	ze62e02.11 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains MER10 repetitive element:
1214	13964	26631	2.11	5.0E-77	AF041015.1	NT	ze62e02.11 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains MER10 repetitive element:
1339	14087	26763	1.77	5.0E-77	4557250	NT	ze62e02.11 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains MER10 repetitive element:
2891	15400	28139	0.98	5.0E-77	AF162666.1	NT	ze62e02.11 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains MER10 repetitive element:

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2767	15472	28214	0.99	5.0E-77	4503160	NT	Homo sapiens cullin 1 (CUL1) mRNA
3512	16288	28923	0.89	5.0E-77	8394518	NT	Homo sapiens ubiquitin specific protease 18 (USP18) mRNA
4855	17389	30022	2.47	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3) mRNA
4855	17389	30023	2.47	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3) mRNA
4884	17611	30231	2.96	5.0E-77	AL043953.1	EST_HUMAN	DKFZp434G1728_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G1728 5'
6886	19603	32642	0.57	5.0E-77	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
7730	20393	33508	0.59	5.0E-77	8923319	NT	Homo sapiens hypothetical protein FLJ20343 (FLJ20343) mRNA
8266	20960	34099	1.28	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH) mRNA
8266	20960	34100	1.28	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH) mRNA
9469	22078	35249	2.48	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5) mRNA
9469	22078	35250	2.48	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5) mRNA
10388	23034	36249	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
10388	23034	36250	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11794	24394	37716	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
11794	24394	37717	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
1965	14701	27417	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
1965	14701	27418	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10188	22836	36050	0.79	3.0E-77	H65167.1	EST_HUMAN	Homo sapiens Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10188	22836	36051	0.79	3.0E-77	H65167.1	EST_HUMAN	SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10785	23465	36709	3.58	3.0E-77	BF359917.1	EST_HUMAN	PM3-MT0078-080800-005-g03 MT0078 Homo sapiens cDNA
1330	14079	26763	1.4	2.0E-77	AV764617.1	EST_HUMAN	AV764617 MDS Homo sapiens cDNA clone MDSBTF10 5'
1412	14160	28844	1.91	2.0E-77	AW997712.1	EST_HUMAN	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA
2084	14816	27548	1.13	2.0E-77	L41825.1	NT	Homo sapiens GYP17 gene, 5' end
2096	14827	27560	5.23	2.0E-77	7706315	NT	Homo sapiens CGI-79 protein (LOC51634) mRNA
2602	15589	28053	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2602	15599	28054	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
4012	16758	29386	1.96	2.0E-77	BE044316.1	EST_HUMAN	hca3b05.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2_HUMAN P10284 RETROVIRUS-RELATED GAG POLYPROTEIN ;
4379	17115	29749	0.74	2.0E-77	AB13519.1	EST_HUMAN	hw22g02.x1 NCI_CGAP_Bn62 Homo sapiens cDNA clone IMAGE:2260466 3' similar to TR:O65245
4379	17115	29750	0.74	2.0E-77	AB13519.1	EST_HUMAN	hw22g02.x1 NCI_CGAP_Bn62 Homo sapiens cDNA clone IMAGE:2260466 3' similar to TR:O65245

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4557	17282		0.96	2.0E-77	4504068	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
4717	17449	30082	1.59	2.0E-77	AA853025.1	EST_HUMAN	ns68g12.s1 NCL CGAP_P12 Homo sapiens cDNA IMAGE:1188838 similar to SW:RL29_HUMAN
5985	18652	31593	1.9	2.0E-77	BE298940.1	EST_HUMAN	P47914 60S RIBOSOMAL PROTEIN L29. [1]: contains element MSR1 repetitive element:
6080	18659	31826	1.73	2.0E-77	BE787143.1	EST_HUMAN	601118852F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028436 5'
							601476902F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3878505 5'
7074	19765	32829	15.45	2.0E-77	AI833003.1	EST_HUMAN	at74a09.x1 Barehead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2377720 3' similar to TR:Q13311
							Q13311 TAXI-BINDING PROTEIN TXBP151. [1]:
8427	21120	34258	0.82	2.0E-77	AI982707.1	EST_HUMAN	qy70c09.x1 NCL CGAP_B1n25 Homo sapiens cDNA clone IMAGE:2017360 3' similar to WP:F29D11.1
9428	22106	35280	5.05	2.0E-77	U50321.1	NT	CE05766 LOW DENSITY LIPID RECEPTOR-RELATED PROTEIN:
9428	22106	35281	5.05	2.0E-77	U50321.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
9895	22545	35738	0.47	2.0E-77	BF310349.1	EST_HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
9895	22545	35739	0.47	2.0E-77	BF310349.1	EST_HUMAN	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
42	12870	25489	1.03	1.0E-77	AB033102.1	NT	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
42	12870	25490	1.03	1.0E-77	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
							Homo sapiens mRNA for KIAA1276 protein, partial cds
268	13074	25714	7.19	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
268	13074	25715	7.19	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
855	15554	26286	17.31	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
855	15554	26297	17.31	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1912	14649	27360	0.9	1.0E-77	AW058119.1	EST_HUMAN	hw63a05.x1 Soares_thymus_NHFFth Homo sapiens cDNA clone IMAGE:2536160 3'
2445	15184	27902	1.32	1.0E-77	AB028024.1	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
3040	15806	28461	1.72	1.0E-77	4503300	NT	Homo sapiens 2,4-dienyl CoA reductase 1, mitochondrial (DEOR1), mRNA
4320	17059	29684	3.37	1.0E-77	7706299	NT	Homo sapiens CGI-90 protein (LOC51628), mRNA
4488	17223	29851	16.41	1.0E-77	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4603	17338	29967	2.29	1.0E-77	6552322	NT	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-exon4, mRNA
5010	17732	30337	1	1.0E-77	7661849	NT	Homo sapiens KIAA0005 gene product (KIAA0005), mRNA
5010	17732	30338	1	1.0E-77	7661849	NT	Homo sapiens KIAA0005 gene product (KIAA0005), mRNA
5839	18827	31561	2.45	1.0E-77	AF086844.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5839	18827	31562	2.46	1.0E-77	AF086944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
5966	18738	31697	1.4	1.0E-77	M25844.1	NT	Human von Willebrand factor gene, exon 20
6366	18126	32120	0.82	1.0E-77	4885182	NT	Homo sapiens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA
6953	19435	32450	21.7	1.0E-77	5881412	NT	Homo sapiens elastin (supravalvular aortic stenosis, Williams-Beuren syndrome) (ELN), mRNA
7564	20234	33338	1.05	1.0E-77	11420159	NT	Homo sapiens cullin 1 (CUL1), mRNA
7663	20327	33437	0.69	1.0E-77	X04571.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
9165	21835	35000	0.62	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
9165	21835	35001	0.62	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
10421	23067	36288	3.1	1.0E-77	AB028396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10449	23095	36326	2.95	9.0E-78	AW753302.1	EST_HUMAN	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
6354	18124	32117	3.11	8.0E-78	AW947061.1	EST_HUMAN	RC3-CT0254-280899-011-005 CT0254 Homo sapiens cDNA
6354	18124	32118	3.11	8.0E-78	AW947061.1	EST_HUMAN	RC2-E10023-080500-012-e05 E10023 Homo sapiens cDNA
84	12910	25548	1.87	6.0E-78	AU118789.1	EST_HUMAN	RC2-E10023-080500-012-e05 E10023 Homo sapiens cDNA
84	12910	25549	1.87	6.0E-78	AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
6465	19232	25663	2.54	6.0E-78	11432710	NT	Homo sapiens GDNF family receptor alpha 1 (GFRA1), mRNA
212	13024	25663	0.72	5.0E-78	11422486	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
2567	15281	28019	5.53	5.0E-78	AW673424.1	EST_HUMAN	ba64h03.y8 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900405 5' similar to Wp.Y4856A.8 CE22121;
3380	16139	28797	3.81	5.0E-78	M55586.1	NT	Human collagenase type IV (CLG4) gene, exon 6
5327	18130	30789	2.33	5.0E-78	AF038536.1	NT	Homo sapiens Best's macular dystrophy related protein mRNA, partial cds
5488	18287	31183	11.12	5.0E-78	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
7054	18745	32808	2.23	5.0E-78	AW953120.1	EST_HUMAN	ES1365180 MAGE cDNAs, MAGE Homo sapiens cDNA
8981	21871	34921	6.78	5.0E-78	U60889.1	NT	Human lysosomal alpha-mannosidase (manB) gene, exon 7
8982	21872	34922	3.31	5.0E-78	BE960836.1	EST_HUMAN	601648061F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:3831887 5'
1115	13872	26531	1.07	4.0E-78	AL043314.2	EST_HUMAN	DKFZp434N0323_t1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
1508	14254	26540	1.78	4.0E-78	AL355841.1	NT	Novel human gene mapping to chromosome 22
1644	14390	27079	1.09	4.0E-78	AI85094.1	EST_HUMAN	wf97b12.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2495615 3' similar to SW:WAP_PIG
2316	15041	27779	2.08	4.0E-78	AF107495.1	NT	O46655 WHEY ACIDIC PROTEIN PRECURSOR;
4288	17027	29852	1.73	4.0E-78	7856878	NT	Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
4722	17454	30088	2.61	4.0E-78	4505806	NT	Homo sapiens syncytin (LOC0816), mRNA
4722	17454	30089	2.61	4.0E-78	4605808	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
5861	18474	31391	1.41	4.0E-78	11420732	NT	Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7390	20069	33148	0.56	4.0E-78	4506738	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
8752	21444	34591	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
8752	21444	34592	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
9268	22022	35192	0.6	4.0E-78	11417251	NT	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), mRNA
10342	22889	36206	1.96	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10342	22889	36207	1.96	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
11398	24002	37305	5.18	4.0E-78	AF169148.1	NT	Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds
11547	24146	37456	2.15	4.0E-78	X05844.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12517	24866	31016	3.57	4.0E-78	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
157	12872	25610	1.39	3.0E-78	AF085901.1	NT	Homo sapiens eRF1 gene, complete cds
157	12872	25611	1.39	3.0E-78	AF085901.1	NT	Homo sapiens eRF1 gene, complete cds
3746	16499	29181	0.98	3.0E-78	AU140604	EST_HUMAN	AU140604 PLACE3 Homo sapiens cDNA clone PLACE3000373.5
3796	16548	29181	0.72	3.0E-78	4507334	NT	Homo sapiens synapjanin 1 (SYNJ1), mRNA
4084	16548	29181	0.96	3.0E-78	4507334	NT	Homo sapiens synapjanin 1 (SYNJ1), mRNA
5094	17813	30430	0.93	3.0E-78	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
10186	22834	33126	5.14	3.0E-78	BE144758.1	EST_HUMAN	GM0-HT0180-041099-065-c07 HT0180 Homo sapiens cDNA
10902	23582	36832	1.97	3.0E-78	BE156318.1	EST_HUMAN	QV0-HT0367-150200-114-908 HT0367 Homo sapiens cDNA
3119	16884	33127	2.17	2.0E-78	U04489.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 20
3966	16743	33127	1.87	2.0E-78	AA311872.1	EST_HUMAN	EST182583 Jurkat T-cells VI Homo sapiens cDNA 5' end
7367	20047	33126	1.54	2.0E-78	AW402306.1	EST_HUMAN	UI-HF-BKO-sag-g-10-0-JL1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139.5
7367	20047	33127	1.54	2.0E-78	AW402306.1	EST_HUMAN	UI-HF-BKO-sag-g-10-0-JL1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139.5
7631	20297	33405	3.99	2.0E-78	BF689800.1	EST_HUMAN	602186529F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4288599.5
7840	20635	33762	2.33	2.0E-78	AV714177.1	EST_HUMAN	AV714177 DCB Homo sapiens cDNA clone DCBAWF09.5
8351	21044	34180	1.4	2.0E-78	AI557509.1	EST_HUMAN	P2.1_16 B07.r tumor2 Homo sapiens cDNA 3'
8351	21044	34181	1.4	2.0E-78	AI557509.1	EST_HUMAN	P2.1_16 B07.r tumor2 Homo sapiens cDNA 3'
11017	23689	36952	3.27	2.0E-78	AI197837.1	EST_HUMAN	q150R05.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1869961.3 similar to WP:R90.1
11088	23738	37012	3.89	2.0E-78	N66951.1	EST_HUMAN	CE06325 PROTEIN KINASE ;
4123	16865	29491	3.07	1.0E-78	4507098	NT	z448f12.s1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:295823.3
4123	16865	29492	3.07	1.0E-78	4507098	NT	Homo sapiens synapjanin-associated protein, 25kD (SNAP25) mRNA
5222	18028	30655	2.93	1.0E-78	11417304	NT	Homo sapiens synapjanin-associated protein, 25kD (SNAP25) mRNA
6857	17934	30570	0.76	1.0E-78	AV648699.1	EST_HUMAN	Homo sapiens GAP-like protein (LOC51306), mRNA
7736	20401	33517	0.55	1.0E-78	AU122163	EST_HUMAN	AV648699 GLC Homo sapiens cDNA clone GLCBMCO1.3
							AU122163 MAMMA1 Homo sapiens cDNA clone MAMMA1001785.5



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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8089	20753		3.28	1.0E-78	U82373.1	NT	Human serine/threonine kinase MNB (mnb) mRNA, complete cds
12045	24565	31117	1.39	1.0E-78	11430480	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12477	25244	30718	1.55	1.0E-78	AI650919.1	EST_HUMAN	wa20b08.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2298615 3'
4650	17384	30016	4.05	9.0E-79	11525891	NT	Homo sapiens peptide YY (PYY), mRNA
4811	17542	30166	8.05	9.0E-79	BE000837.1	EST_HUMAN	RC2-BN0074-090300-014-c12 BN0074 Homo sapiens cDNA
5346	18149	30829	16.87	9.0E-79	AB028070.1	NT	Homo sapiens mRNA for activator of S phase Kinase, complete cds
6248	19022	31994	2.38	9.0E-79	5454145	NT	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5) (UBE2E3) mRNA
7251	25108		0.99	9.0E-79	11424427	NT	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
7473	20146	33239	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
7473	20146	33240	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
8244	20938	34074	0.49	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8244	20938	34075	0.49	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8951	21852	34802	5.1	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
8951	21852	34803	5.1	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9280	22034	35206	0.58	9.0E-79	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10283	22811	36121	0.82	9.0E-79	11438643	NT	Homo sapiens hypothetical protein FLJ20535 (FLJ20535), mRNA
10318	22965	36182	1.73	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
10318	22965	36183	1.73	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
11001	23674	36930	3.13	9.0E-79	AY008273.1	NT	Homo sapiens TRAF6-regulated IKK activator 1 beta Uev1A mRNA, complete cds
11497	24098	37410	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
11497	24098	37411	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
3725	16478	29115	0.91	8.0E-79	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11966	17910	30595	1.82	8.0E-79	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
3247	16009	28660	26.39	7.0E-79	BE619648.1	EST_HUMAN	601472760T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875657 3'
11899	24466		4.32	6.0E-79	AA699828.1	EST_HUMAN	294604.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462558 3' similar to TR-Q16408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ;
11478	24079	37390	2.52	5.0E-79	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
3173	15936		1.49	4.0E-79	8922325	NT	Homo sapiens hypothetical protein FLJ10283 (FLJ10283), mRNA
305	13109	25749	1.28	3.0E-79	AF114488.1	NT	Homo sapiens intersecin short isoform (ITSN) mRNA, complete cds
957	13722	26388	3.85	3.0E-79	AF232708.1	NT	Homo sapiens cell-line tsA201a chloride ion current inducer protein (Cin) gene, complete cds
3095	15950	28501	1.51	3.0E-79	U09410.1	NT	Human zinc finger protein ZNF131 mRNA, partial cds
5277	18082	30738	5.24	3.0E-79	AF110322.1	NT	Homo sapiens MSTP016 (MST016) mRNA, complete cds
5637	18432	31345	1.24	3.0E-79	AB020699.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5662	18457	31371	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3884554 5'
5662	18457	31372	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3884554 5'
5682	18475	31392	3.56	3.0E-79	11428770	NT	Homo sapiens netrin 1 (NTN1), mRNA
5682	18475	31393	3.56	3.0E-79	11428770	NT	Homo sapiens netrin 1 (NTN1), mRNA
6848	19408	32422	0.87	3.0E-79	BE268983.1	EST_HUMAN	601112055F1 NIH_MGC 10 Homo sapiens cDNA clone IMAGE:3352885 5'
6960	19442	32457	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
6960	19442	32458	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
6960	19442	32459	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
7726	20389	33503	0.76	3.0E-79	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8064	20758	33887	1.81	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
8903	21970	35144	1.33	3.0E-79	10835036	NT	Homo sapiens tetratricopeptide repeat domain 3 (TTC3), mRNA
10245	22893	36694	1.24	3.0E-79	AV698115.1	EST_HUMAN	AV698115 GKc Homo sapiens cDNA clone GKCAHE11 5'
10768	23452	36694	1.52	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
10768	23452	36695	1.52	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
281	13088	26033	0.99	2.0E-79	H63129.1	EST_HUMAN	y48R03.t1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:208641 3'
619	13398	26033	1.6	2.0E-79	BE379928.1	EST_HUMAN	601199415F2 NIH_MGC 53 Homo sapiens cDNA clone IMAGE:3511107 5'
907	13674	26339	2.28	2.0E-79	4757841	NT	Homo sapiens BCL2-like 2 (BCL2L2) mRNA
1012	13772	27226	2.09	2.0E-79	AI623747.1	EST_HUMAN	h18h07.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2118686 3'
1781	14522	27227	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
1781	14522	27227	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
2144	14874	27607	5.93	2.0E-79	4585963	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2144	14874	27608	5.93	2.0E-79	4585963	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2189	14918	27652	1.07	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
2721	15428	28166	1.09	2.0E-79	AB023154.1	NT	Homo sapiens mRNA for KIAA0937 protein, partial cds
3893	16943	28283	0.83	2.0E-79	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
4144	16988	28517	1.09	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
5585	18382		1.22	2.0E-79	AA312223.1	EST_HUMAN	EST182926 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, cosmid B0303.15
5640	18435	31348	0.8	2.0E-79	11181769	NT	Homo sapiens X transporter protein 3 (XT3), mRNA
6149	18928	31898	1.14	2.0E-79	AB020637.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
6864	17941	30577	0.89	2.0E-79	AF263613.1	NT	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds
7067	19758	32822	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7067	19758	32823	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7899	20694	33821	1.08	2.0E-79	4506442	NT	Homo sapiens retinoblastoma-like 1 (p107) (RBL1) mRNA

Table 4

## Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8415	21108	34247	2.25	2.0E-79	11427428	NT	Homo sapiens hypothetical protein FLJ11008 (FLJ11008), mRNA
8684	21356	34503	0.58	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8684	21356	34504	0.58	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8802	21593	34734	1.65	2.0E-79	11432184	NT	Homo sapiens similar to ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) membrane sector associated protein Mb-9 (H. sapiens) (LOC63961), mRNA
9992	22640	35850	1.44	2.0E-79	S72869.1	NT	H4(D105170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
9992	22640	35851	1.44	2.0E-79	S72869.1	NT	H4(D105170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
10698	23389	36627	12.34	2.0E-79	U07819.1	NT	Human contactin 1 precursor (CNTN1) mRNA, complete cds
10656	23632	36880	4.05	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
10656	23632	36881	4.05	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
11936	17908	30594	2.18	2.0E-79	7682357	NT	Homo sapiens KIAA0879 protein (KIAA0879), mRNA
12018	24548	31108	5.19	2.0E-79	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
12238	24690	31075	2.89	2.0E-79	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
8492	25091	31075	3.78	1.0E-79	BF363071.1	EST_HUMAN	MRO-NIN0087-260600-017-b10 NN0087 Homo sapiens cDNA
8143	20837	33969	0.78	1.0E-79	BE394211.1	EST_HUMAN	601311517F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632909 5'
11623	24220	37543	2.05	1.0E-79	BF087405.1	EST_HUMAN	QV2-HT0540-120900-358-a05 HT0540 Homo sapiens cDNA
12047	25333	37543	1.8	1.0E-79	AF460115.1	EST_HUMAN	ar79a04.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2161438 3'
3143	15907	28551	2.35	9.0E-80	AA725848.1	EST_HUMAN	al23a05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
3143	15907	28552	2.35	9.0E-80	AA725848.1	EST_HUMAN	al23a05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
9912	22561	35757	1.14	9.0E-80	BE789603.1	EST_HUMAN	601561652F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3636061 5'
11245	23907	37189	8.66	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y <sup>+</sup> system), member 8 (SLC7A8), mRNA
11245	23907	37200	8.66	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y <sup>+</sup> system), member 8 (SLC7A8), mRNA
3588	16342		1.31	8.0E-80	U94387.1	NT	Homo sapiens Y chromosome spermatogenesis candidate protein (RBM) pseudogene mRNA, partial cds
7504	20175	33269	3.07	8.0E-80	11422647	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
7504	20175	33269	3.07	8.0E-80	11422647	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
8302	21669	35142	1.13	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9302	21669	35143	1.13	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
880	13649	26318	1.12	8.0E-80	AI422197.1	EST_HUMAN	ff58d02.x1 NCI_OGAP_Bn23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN Q16795 NADH:UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR ;
1638	14384	27071	2.22	6.0E-80	U64898.1	NT	Homo sapiens NRD convertase mRNA, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4252	18993	29620	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
4252	18993	29621	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
5712	18505	31427	1.79	6.0E-80	11421482	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), mRNA
5884	18785	31729	3.37	6.0E-80	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
6135	18913	31882	4.69	6.0E-80	11438736	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
6179	18956		1.17	6.0E-80	7682393	NT	Homo sapiens KIAA0941 protein (KIAA0941), mRNA
6230	19004	31880	0.96	6.0E-80	M18533.1	NT	Homo sapiens dystrophin (DMD) mRNA, complete cds
8723	21415	34558	3.22	6.0E-80	11528484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8723	21415	34559	3.22	6.0E-80	11528484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8917	21608	34751	1.51	6.0E-80	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
9259	21838	35113	0.83	6.0E-80	AF161495.1	NT	Homo sapiens HSPC146 mRNA, complete cds
9781	22412	35619	1.48	6.0E-80	U20211.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exon 21
10861	23641	36788	2.83	6.0E-80	11427366	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11187	23862	37138	26.56	6.0E-80	AF226730.1	NT	Homo sapiens Cyf19 mRNA, complete cds
11702	24297	37623	1.59	6.0E-80	U76560.1	NT	Human peroxisome targeting signal 2 receptor (Pex7) mRNA, complete cds
11756	24347	37677	1.5	6.0E-80	AF102265.1	NT	Homo sapiens N-acetylglucosamine-phosphate mutase mRNA, complete cds
11802	24392	37725	2.26	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11802	24392	37726	2.26	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11906	13649	26318	1.88	6.0E-80	AI422197.1	EST_HUMAN	t58d02.x1 NCI CGAP Bm23 Homo sapiens cDNA clone IMAGE:2103458 3' similar to SW:NUEM_HUMAN Q16795 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR ;
12028	25217		2.42	6.0E-80	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12219	24879		5.78	6.0E-80	AB028900.1	NT	Homo sapiens GST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5 genes, complete cds
12707	25341		1.94	6.0E-80	AJ133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene) genes, complete cds
12804	25051	30958	1.35	6.0E-80	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
574	13354	25983	0.74	5.0E-80	4506228	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA
815	13586	26253	1.97	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
815	13586	26254	1.97	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
1166	13920		2.39	5.0E-80	X91647.1	NT	H sapiens nox1 gene (exon 12)
1439	14188		2.26	5.0E-80	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
2361	15083	27821	1.99	5.0E-80	U89358.1	NT	Human I(3)mbd protein homolog mRNA, complete cds
2431	15152	27886	1.65	5.0E-80	AB037655.1	NT	Homo sapiens mRNA for KIAA1434 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2797	15502	28242	1.67	5.0E-80	4504292	NT	Homo sapiens H3 histone family, member J (H3FJ) mRNA
4018	16764	28393	1.37	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4018	16764	28394	1.37	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4900	17627	30244	1.28	5.0E-80	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
8255	20849	34086	1.04	5.0E-80	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
9157	21888	35056	8.77	4.0E-80	F25915.1	EST_HUMAN	HSPD13155 HM3 Homo sapiens cDNA clone s4000045F03
211	13023		8.96	3.0E-80	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4681	17365	30030	1.7	3.0E-80	BF085009.1	EST_HUMAN	PMO-GN0018-040900-002-E03 GN0018 Homo sapiens cDNA
4850	17560		3.77	3.0E-80	BE817465.1	EST_HUMAN	QV4-BN0263-040600-241-g10 BN0263 Homo sapiens cDNA
5730	18522	31443	2.68	3.0E-80	A091675.1	EST_HUMAN	cc23a12.x1 Soares NSF F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1567054 3' similar to
1790	14530	27238	5.08	2.0E-80	R35321.1	EST_HUMAN	TR:O35790 O35790 PIG-L ;
1853	14591	27307	1.19	2.0E-80	A1444821.1	EST_HUMAN	yg65a08.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:38060 5'
2048	14782	27509	5.82	2.0E-80	AL043116.2	EST_HUMAN	RET4B7 subcloned retina cDNA library Homo sapiens cDNA clone RET4B7
6708	19623	32687	0.83	2.0E-80	AA582952.1	EST_HUMAN	DKFZp434D1323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D1323 5'
6813	19474	32496	1.71	2.0E-80	11421930	NT	nm80d01.s1 NCI CGAP CG9 Homo sapiens cDNA clone IMAGE:1090177 3'
7151	19838	32908	1.46	2.0E-80	T75215.1	EST_HUMAN	Homo sapiens Golgi transport complex protein (90 kDa) (GTC90), mRNA
9057	21746	34905	1.41	2.0E-80	AW064270.1	EST_HUMAN	yc89f12.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:22851 5' similar to
9668	22320	35516	1	2.0E-80	AJ007379.1	NT	SP:K1CR_XENLA P08802 KERATIN, TYPE I CYTOSKELETAL ENDO B ;
10780	23463	36705	4.49	2.0E-80	AA393362.1	EST_HUMAN	EST376343 MAGE resequences, MAGE Homo sapiens cDNA
331	13132		2.25	1.0E-80	AL163303.2	NT	Homo sapiens GGT gene, exon 6
782	13554	28215	1.37	1.0E-80	AF231920.1	NT	z70f12.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:72727 5' similar to TR:G191315
1947	14682		2.44	1.0E-80	AJ732656.1	EST_HUMAN	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN ;
5060	17779	30397	0.99	1.0E-80	4557810	NT	Homo sapiens chromosome 21 segment HS21C103
5244	18050		6.43	1.0E-80	BE388615.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
5881	18667	31608	6.58	1.0E-80	L10347.1	NT	nm01f12.x5 NCI CGAP CG8 Homo sapiens cDNA clone IMAGE:1076495 3' similar to contains OFR:11 OFR
6406	19175	32174	1.36	1.0E-80	5174540	NT	repetitive element ;
7106	19784	32859	0.95	1.0E-80	AJ224172.1	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
7472	20145	33237	2.53	1.0E-80	AJ948731.1	EST_HUMAN	601274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615433 5'
7472	20145	33238	2.53	1.0E-80	AJ948731.1	EST_HUMAN	Human pro-alpha type II collagen (COL2A1) gene exons 1-54, complete cds
							Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
							Homo sapiens mRNA for lipophilin B
							wq25c05.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'
							wq25c05.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8130	20824	33060	2.84	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8601	21283	34435	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8601	21283	34436	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9185	21855	35019	1.21	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
9185	21855	35020	1.21	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
10325	22972	36162	0.95	1.0E-80	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10548	23244	36478	5.25	1.0E-80	11641276	NT	Homo sapiens similar to rat myomegalin (LOC64182), mRNA
10548	23244	36480	5.25	1.0E-80	11641276	NT	Homo sapiens similar to rat myomegalin (LOC64182), mRNA
12289	24719	31051	1.57	1.0E-80	11417801	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
12498	24853	31034	3.08	1.0E-80	AB020840.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
10583	23278	36515	1.46	8.0E-81	A1251752.1	EST_HUMAN	qh90g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854286 3'
10583	23278	36518	1.46	8.0E-81	A1251752.1	EST_HUMAN	qh90g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854286 3'
11102	23772	37046	8.48	8.0E-81	BE394825.1	EST_HUMAN	601310531F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632070 5'
7152	19839	32809	3.58	7.0E-81	A1822115.1	EST_HUMAN	ze81c08.x6 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:289918 3'
4354	17092	29728	5.28	6.0E-81	BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
4354	17092	29727	5.28	6.0E-81	BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
5201	18009	30630	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5201	18009	30631	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7489	20161	33253	0.97	6.0E-81	AF038660.1	NT	Homo sapiens chromosome 1p33-p34 beta-1, 4-galactosyltransferase mRNA, complete cds
8136	21824	34989	1.36	6.0E-81	AA360017.1	EST_HUMAN	EST68129 Fetal lung II Homo sapiens cDNA 5' and
11800	24390	37723	1.61	6.0E-81	BE396092.1	EST_HUMAN	601312522F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3659284 5'
12430	24803	31041	2.29	6.0E-81	BF679022.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
12430	24803	31042	2.29	6.0E-81	BF679022.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
2214	14942	27682	2.8	5.0E-81	BE268042.1	EST_HUMAN	60112505F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345480 5'
8311	21005	34143	1.83	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8311	21005	34144	1.83	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9548	22201	35383	0.77	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
9548	22201	35384	0.77	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11577	24176	37491	2.23	5.0E-81	9508634	NT	Homo sapiens hypothelial protein (FLJ11045), mRNA
11839	24423	37764	1.3	5.0E-81	11526341	NT	Homo sapiens armadillo repeat gene deletes in velocardiofacial syndrome (ARVCF), mRNA
888	13461	26109	2.03	4.0E-81	A1521435.1	EST_HUMAN	th60e12.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:212702 3' similar to TR:Q85560 Q85560
1815	14555	27270	1.31	4.0E-81	AW778612.1	EST_HUMAN	hm8402.x1 NCI_CGAP_Co14 Homo sapiens cDNA clone IMAGE:3035907 3' similar to SW:QOPG_BOVIN P53620 COATOMER GAMMA SUBUNIT ;

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3168	15931	28590	3.58	4.0E-81	AB037766.1	NT	Homo sapiens mRNA for KIAA1345 protein, partial cds ws90h03.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2505265 3' similar to TR:O43815 O43815
3619	16372	29013	0.98	4.0E-81	AW004608.1	EST_HUMAN	STRIATIN. ;
4139	18881	29509	2.26	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4139	18881	29510	2.26	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4360	17098	29733	1.33	4.0E-81	8923209	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
7177	19863	32834	1.11	4.0E-81	4757863	NT	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delta subunit (CACNA2), mRNA
7298	19882	33058	0.57	4.0E-81	11420544	NT	Homo sapiens ets variant gene 1 (ETV1), mRNA
8185	20879	34016	3.59	4.0E-81	X06989.1	NT	Human mRNA for amyloid A4(751) protein
8443	21135	34271	3.43	4.0E-81	U20187.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
8443	21135	34272	3.43	4.0E-81	U20187.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
9126	21814	34980	6.1	4.0E-81	AB018001.1	NT	Homo sapiens mRNA for Death-associated protein kinase 2, complete cds
10001	22649	35861	1.53	4.0E-81	11425281	NT	Homo sapiens ligase I, DNA, ATP-dependent (LIG1), mRNA
10070	22718	35935	0.71	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10070	22718	35936	0.71	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
11140	23807	37086	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11140	23807	37087	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11928	25280	30731	3.63	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11928	25280	30732	3.63	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12463	24831	31030	1.53	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12463	24831	31031	1.53	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12597	24911	31004	4.82	4.0E-81	11417974	NT	Homo sapiens NF2 gene
1244	13993	26658	12.36	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
1244	13993	26659	12.36	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
2371	15083	27832	1.23	3.0E-81	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2989	15755	28400	5.83	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2989	15755	28401	5.83	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2837	15605	28254	2.97	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
2837	15605	28255	2.97	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
3755	16507	29144	0.71	2.0E-81	AW611542.1	EST_HUMAN	hg85c01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2952384 3'
7857	20552	33878	0.6	2.0E-81	8923839	NT	Homo sapiens hypothetical protein (LOC55586), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1402	14149	28829	1.13	1.0E-81	W26539.1	EST_HUMAN	3373 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
3644	16397	29037	1.07	1.0E-81	AW960658.1	EST_HUMAN	EST1372729 IMAGE resequences, MAGF Homo sapiens cDNA
4478	17214	29839	3.56	1.0E-81	AA040370.1	EST_HUMAN	ZK4509.11 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:485825 5' similar to
4600	17335	29864	6.99	1.0E-81	BE047986.1	EST_HUMAN	PIR:552437 S52437 CDP-diacylglycerol synthase - fruit fly;
6167	17890	31785	4.69	1.0E-81	U87928.1	NT	t245604.y1 NCL_OGAP_Bm52 Homo sapiens cDNA clone IMAGE:2291526 5'
5269	18076	30704	4.1	1.0E-81	11432968	NT	Human aconitate hydratase (ACO2) gene, exon 3
5269	18075	30705	4.1	1.0E-81	11432966	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5415	18214	30922	0.85	1.0E-81	AA255569.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5568	18365	31273	3.47	1.0E-81	U62351.1	NT	P49843 DNA PRIMASE 58 KD SUBUNIT;
5568	18365	31274	3.47	1.0E-81	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
6054	18834	31796	1.81	1.0E-81	BF674941.1	EST_HUMAN	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
6453	19221	32218	0.59	1.0E-81	11420965	NT	60213784F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274535 5'
6453	19221	32219	0.59	1.0E-81	11420965	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70KD) (PDE1C), mRNA
6639	19401	32416	0.87	1.0E-81	AJ133269.1	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70KD) (PDE1C), mRNA
7669	20333	33444	8.45	1.0E-81	11432966	NT	Homo sapiens cavedin-1/2 locus, Contig1, D7S822, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
9676	22328	35523	5.09	1.0E-81	BE958278.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
9676	22328	35524	5.09	1.0E-81	BE958278.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5'
8869	22519	35715	5.06	1.0E-81	BE564367.1	EST_HUMAN	601645051F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3930228 5'
10003	22651	35863	1.59	1.0E-81	AA630784.1	EST_HUMAN	601343180F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685483 5'
10005	22653	35865	3.27	1.0E-81	BE744545.1	EST_HUMAN	act1406.st Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:856427 3' similar to
10005	22653	35866	3.27	1.0E-81	BE744545.1	EST_HUMAN	SW:YB36_YEAST P38126 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION;
10405	23051	36289	1.59	1.0E-81	AW897560.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3638280 5'
10860	23540	36787	2.8	1.0E-81	8923698	NT	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3638280 5'
11029	23700	36966	1.97	1.0E-81	AW844986.1	EST_HUMAN	CM3-NN0059-140400-147-at12 NN0059 Homo sapiens cDNA
11029	23700	36967	1.97	1.0E-81	AW844986.1	EST_HUMAN	Homo sapiens golin-like protein (GLP), mRNA
11240	16397	29037	1.72	1.0E-81	AW960658.1	EST_HUMAN	MRO-CT0006-250599-019 CT0006 Homo sapiens cDNA
11507	24108	37421	1.99	1.0E-81	BF204253.1	EST_HUMAN	MRO-CT0006-250599-019 CT0006 Homo sapiens cDNA
12132	24822	31093	4.13	1.0E-81	11418138	NT	EST1372729 IMAGE resequences, MAGF Homo sapiens cDNA
12	12839	25452	3.6	8.0E-82	AF161406.1	NT	601867714F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4110459 5'
							Homo sapiens phorbol (similar to apolipoprotein B mRNA editing protein) (DJ742C19.2), mRNA
							Homo sapiens HSPC288 mRNA, partial cds



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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
104	12839	25452	2.45	8.0E-82	AF161406.1	NT	Homo sapiens HSPC288 mRNA, partial cds
257	13065	25704	1.1	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
795	13567	26227	2.83	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
867	13636	26306	0.84	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
1474	14221	26907	1.42	8.0E-82	AB037748.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
1654	14400	27089	1.43	8.0E-82	6715601	NT	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA
4219	16960	29585	0.9	8.0E-82	8923432	NT	Homo sapiens hypothetical protein FLJ20461 (FLJ20461), mRNA
1433	14180	28216	1.7	7.0E-82	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
2769	15474	28216	1.2	7.0E-82	AU144050.1	EST_HUMAN	AU144050 HEMBA1 Homo sapiens cDNA clone HEMBA1000752 3'
11759	24350	37682	1.71	7.0E-82	AA663747.1	EST_HUMAN	ae68e04.s1 Striatagene schizo brain S11 Homo sapiens cDNA clone IMAGE:969342 3'
4104	16847	29473	0.71	5.0E-82	AA515512.1	EST_HUMAN	nf69e11.s1 NCI CGAP_Co3 Homo sapiens cDNA clone IMAGE:925196 3'
1666	14412	27103	49.82	4.0E-82	AF081484.1	NT	Homo sapiens alpha-tubulin isoform 1 mRNA, complete cds
5409	18208	30915	0.8	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-408 HT0540 Homo sapiens cDNA
5409	18208	30916	0.8	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-408 HT0540 Homo sapiens cDNA
5671	18466	31381	0.65	4.0E-82	M25833.1	NT	Human von Willebrand factor gene, exon 9
11716	24310	37633	11.61	4.0E-82	AI937300.1	EST_HUMAN	wp75e09.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2467624 3' similar to TR:O75276
12374	24773		5.05	4.0E-82	AF029701.2	NT	O75276 PKD1 ;
271	13079	25721	21.65	3.0E-82	4502166	NT	Homo sapiens presenilin-1 gene, exons 1 and 2
687	13482	26110	3.11	3.0E-82	BE005705.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
770	13542	26203	5.7	3.0E-82	5174702	NT	RC2-BN0120-010400-013-f02 BN0120 Homo sapiens cDNA
850	13620	26290	10.65	3.0E-82	4502166	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1039	13799		18.58	3.0E-82	AA725848.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1333	14082	26758	1.25	3.0E-82	AW875073.1	EST_HUMAN	ai23e05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
1450	14197	26881	3.44	3.0E-82	AL163285.2	NT	RC6-PT0001-190100-021-B02 PT0001 Homo sapiens cDNA
1894	14631	27341	1.91	3.0E-82	BE813232.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C085
2000	14735	27459	1.53	3.0E-82	4501922	NT	RC1-BN0005-260700-018-g04 BN0005 Homo sapiens cDNA
3266	16028		2.52	3.0E-82	5453811	NT	Homo sapiens adenylylase cyclase activating polypeptide 1 (pituitary) receptor type 1 (ADCYAP1R1) mRNA
						NT	Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA

Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4864	17593	30216	0.98	3.0E-82	AA135979.1	EST_HUMAN	zn93b04.1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565711 5' similar to SW:PAGT_BOVIN Q07537 POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE ;
8052	20746	33878	3.14	3.0E-82	11425208	NT	Homo sapiens ankryrin-like with transmembrane domains 1 (ANKTM1), mRNA
8464	21146	34287	0.88	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
8454	21146	34288	0.88	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
9724	22375	35575	3.23	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
9724	22375	35576	3.23	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
583	13363	25990	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
583	13363	25991	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
1881	14425	27121	1.21	2.0E-82	AL046390.1	EST_HUMAN	DKFZ434M117.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZ434M117 5'
3827	16578	29210	1.25	2.0E-82	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4208	16949	29575	1.17	2.0E-82	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4521	17256	28890	1.01	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1096 protein, partial cds
4521	17256	28891	1.01	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1096 protein, partial cds
4816	17547	30172	2.95	2.0E-82	AF045555.1	NT	Homo sapiens wiser1 (WBSCR1) and wiser5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
5021	17742	30352	1.46	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5021	17742	30353	1.46	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5384	18184	30874	5.65	2.0E-82	AB018270.1	NT	Homo sapiens mRNA for KIAA0727 protein, partial cds
6032	18891	31827	4.73	2.0E-82	AF234882.1	NT	Homo sapiens FAM4A1 splice variant a (FAM4A1) mRNA, complete cds
7581	25426	33482	0.91	2.0E-82	AI476428.1	EST_HUMAN	hm21g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157272 3'
7705	20369	33482	0.85	2.0E-82	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8204	20898	34035	2.16	2.0E-82	11321570	NT	Homo sapiens slit (Drosophila) homolog 3 (SLIT3), mRNA
8568	21260	34397	0.45	2.0E-82	7657340	NT	Homo sapiens microrachidia (mouse) homolog (MORC), mRNA
8568	21260	34398	0.45	2.0E-82	7657340	NT	Homo sapiens microrachidia (mouse) homolog (MORC), mRNA
10009	22657	35370	1.84	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
10009	22657	35871	1.84	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11237	23900	37187	1.27	2.0E-82	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11237	23900	37188	1.27	2.0E-82	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11279	23940	37233	4.45	2.0E-82	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
11279	23940	37234	4.45	2.0E-82	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
11750	24341	37870	1.91	2.0E-82	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
11957	24508		1.58	2.0E-82	N94950.1	EST_HUMAN	zb31d10.s1 Soares_parathyroid_tumor_NHHPA Homo sapiens cDNA clone IMAGE:305203 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12485	24844		3.47	2.0E-82	AA011278.1	EST_HUMAN	z01g09.r1 Soares_fetal_liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429568 5'
12775	25029		1.95	2.0E-82	11418097	NT	Homo sapiens SRY (sex determining region Y)-box 10 (SOX10), mRNA
578	13358	25985	1.14	1.0E-82	11545921	NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
1188	13838		0.77	1.0E-82	BE885105.1	EST_HUMAN	601510859F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912207 5'
1263	14012	26679	3.1	1.0E-82	BE064396.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
1284	14013	26680	1.28	1.0E-82	AB011110.2	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
8941	21533	34678	1.13	1.0E-82	AB037838.1	NT	Homo sapiens mRNA for KIAA1417 protein, partial cds
9553	22206	35390	0.59	1.0E-82	AB014562.1	NT	Homo sapiens mRNA for KIAA0662 protein, partial cds
10145	22793		1.17	1.0E-82	BF515938.1	EST_HUMAN	UJ-H-BW1-aca-f03-0-U1.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084053 3'
10846	23337	36878	2.34	1.0E-82	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8615	21307	34449	4.51	9.0E-83	BF672220.1	EST_HUMAN	602150403F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4291561 5'
10174	22822	36039	0.53	9.0E-83	BE263347.1	EST_HUMAN	601117160F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357734 5'
1392	14139	26816	3.33	8.0E-83	BE383973.1	EST_HUMAN	601273346F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614362 5'
1676	15523	27115	5.63	8.0E-83	N66981.1	EST_HUMAN	2a48f12.s1 Soares fetal liver spleen_1NFLS Homo sapiens cDNA clone IMAGE:295623 3'
1335	14084	26759	0.97	7.0E-83	AW385529.1	EST_HUMAN	QV4-LT0016-271298-068-h11 LT0016 Homo sapiens cDNA
2868	15635		1.88	7.0E-83	AA584655.1	EST_HUMAN	no12h01.s1 NCL_CGAP_Phrt Homo sapiens cDNA clone IMAGE:1100497 3' similar to contains Alu repetitive element;
4765	17497		6.68	7.0E-83	BF221813.1	EST_HUMAN	7p37a07.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:3647893 3' similar to TR:Q9Y316 Q9Y316 DJ207H1.1;
5960	18742	31702	0.58	7.0E-83	11426657	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
11717	24311	37634	1.4	7.0E-83	5729753	NT	Homo sapiens transcription factor CA150 (CA150) mRNA
11717	24311	37635	1.4	7.0E-83	5729753	NT	Homo sapiens transcription factor CA150 (CA150) mRNA
394	13179	25826	1.98	6.0E-83	M33320.1	NT	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
1779	14520	27224	1.5	6.0E-83	AW573088.1	EST_HUMAN	m31h03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2933525 3' similar to
3017	15783	28432	0.71	6.0E-83	AW816405.1	EST_HUMAN	SW:YBEB_HAEIN P44471 HYPOTHETICAL PROTEIN HI0034.;
3046	15812		1.08	6.0E-83	AF231819.1	NT	Homo sapiens chromosome 21 unknown mRNA
5211	18019	30641	2.02	6.0E-83	4507866	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
5933	18716	31674	1.52	6.0E-83	AJ010770.1	NT	Homo sapiens hypoxanthine gene, exons 1-50
7401	20079	33160	2.27	6.0E-83	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
9575	22228	35413	2.85	6.0E-83	4505314	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
9689	23321	35517	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
9698	23321	35518	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11517	24117		2.53	6.0E-83	AA486105.1	EST_HUMAN	ab14610.s1 Stragene lung (#937210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains THR.12 THR repetitive element;
11908	24472		4.27	6.0E-83	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
925	13892		2.03	5.0E-83	U17883.1	NT	Human succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 5
2043	15528		1.55	5.0E-83	AF006305.1	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
3629	16382	29022	1.18	5.0E-83	AL133207.2	NT	Novel human gene mapping to chromosome X
3898	16636	29275	0.77	5.0E-83	4885190	NT	Homo sapiens deoxyribonuclease 1 (DNASE1), mRNA
5020	17741	30350	11.53	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5020	17741	30351	11.53	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5093	17812	30428	1.07	5.0E-83	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
5093	17812	30429	1.07	5.0E-83	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
625	13404	26039	1.72	4.0E-83	AF224699.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
977	13742		4.9	3.0E-83	AA368311.1	EST_HUMAN	EST79542 Piacenta I Homo sapiens cDNA similar to similar to endogenous retrovirus ERV9
2780	15485		1.33	3.0E-83	AA632654.1	EST_HUMAN	np87c07.s1 NCL_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:1133292 similar to contains THR.12 THR repetitive element;
6483	19250		0.62	3.0E-83	AI217223.1	EST_HUMAN	qf73a05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755682 3'
1792	14532	27240	1.86	2.0E-83	AA993492.1	EST_HUMAN	o184g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to TR:Q92814
1792	14532	27241	1.86	2.0E-83	AA993492.1	EST_HUMAN	Q92614 MYELOBLAST KIAA0216 ;
1918	14555	27365	4.07	2.0E-83	N66951.1	EST_HUMAN	Q92614 MYELOBLAST KIAA0216 ;
2856	15624	28268	1.1	2.0E-83	BE828694.1	EST_HUMAN	z44812.s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:285823 3'
3263	16025		1.89	2.0E-83	11430834	NT	RC6-E70046-280600-073-H12 E70046 Homo sapiens cDNA
3756	16508		0.7	2.0E-83	AL163202.2	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
4302	17041	29668	4.11	2.0E-83	AF202878.1	NT	Homo sapiens chromosome 21 segment HS21C002
4604	17339	29668	6.14	2.0E-83	7706398	NT	Homo sapiens hematopoietic progenitor cell antigen CD34 precursor (CD34) mRNA, partial cds
4804	17339	29669	6.14	2.0E-83	7706398	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5189	17997	30620	0.9	2.0E-83	U06679.1	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5755	18547	31488	0.85	2.0E-83	11428081	NT	Human carcinoembryonic antigen gene family member 18 (CGM18) gene, exons A1 and B1
5875	18662	31603	1.31	2.0E-83	BE885401.1	EST_HUMAN	Homo sapiens membrane protein CH1 (CH1), mRNA
6647	19409	32423	1.12	2.0E-83	AF129533.1	NT	601507482F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909068 5'
7335	20017	33095	6.36	2.0E-83	AF129533.1	NT	Homo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7704	20367	33480	0.84	2.0E-83	BF105097.1	EST_HUMAN	801822090F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042318 5'
7742	20438	33560	0.78	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7742	20438	33561	0.78	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7888	20581	33710	1.79	2.0E-83	U66707.1	NT	Rattus norvegicus densin-180 mRNA, complete cds
8213	20907	34042	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
8213	20907	34043	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
9494	22147	35328	0.48	2.0E-83	5453881	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9494	22147	35329	0.48	2.0E-83	5453881	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9934	22582	35780	4.01	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
9934	22582	35781	4.01	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10018	22864	35881	1.39	2.0E-83	AI117659.1	EST_HUMAN	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10089	22737	35952	0.77	2.0E-83	AW505600.1	EST_HUMAN	UI-HF-BNO-ami-h-07-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081852 5'
10753	23438	36682	6.84	2.0E-83	11438448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
10845	23527	36770	2.19	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135_r1 547 (synonym: hfr1) Homo sapiens cDNA clone DKFZp547J135 5'
10845	23527	36771	2.19	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135_r1 547 (synonym: hfr1) Homo sapiens cDNA clone DKFZp547J135 5'
12822	24669		3.85	2.0E-83	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1390	14137	26813	2.18	1.0E-83	4504326	NT	Homo sapiens hydroxyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1390	14137	26814	2.18	1.0E-83	4504326	NT	Homo sapiens hydroxyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1442	14189	26873	0.98	1.0E-83	AF105087.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
1442	14189	26874	0.98	1.0E-83	AF105087.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
3179	15942	28593	1.18	1.0E-83	7682349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
3860	16600	29237	3.93	1.0E-83	AF053798.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
4220	16961	29586	1.99	1.0E-83	Z25822.1	NT	H. sapiens gene for mitochondrial dodecenyl-CoA delta-isomerase, exon 3
4831	17562	30184	3.38	1.0E-83	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
6596	19359	32373	1.65	1.0E-83	AI027614.1	EST_HUMAN	ov69p08.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1645431 3' similar to gb:M64241 QM
3778	16528	29167	3.8	7.0E-84	BE901209.1	EST_HUMAN	PROTEIN (HUMAN);
1272	14021	26687	3.5	6.0E-84	BE838664.1	EST_HUMAN	801676023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958853 5'
1272	14021	26688	3.5	6.0E-84	BE838664.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
2396	15117	27854	8.26	6.0E-84	AA776574.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
5190	17892		3.33	6.0E-84	AL042863.2	EST_HUMAN	ae66a03.s1 Striatagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971020 3'
							DKFZp434H0322_r1 434 (synonym: hta5) Homo sapiens cDNA clone DKFZp434H0322 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5431	18230	30943	1.87	6.0E-84	AA897339.1	EST_HUMAN	ai47g03.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460500 3' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
5574	18371	31282	1.04	6.0E-84	11428718	NT	Homo sapiens acetyl LDL receptor, SREC=scavenger receptor expressed by endothelial cells (SREC), mRNA
5574	18371	31283	1.04	6.0E-84	11428718	NT	Homo sapiens acetyl LDL receptor, SREC=scavenger receptor expressed by endothelial cells (SREC), mRNA
7373	20053	33134	2.94	6.0E-84	BE810371.1	EST_HUMAN	PMO-LT0019-190600-004-F02 LT0019 Homo sapiens cDNA
7591	20259	33367	0.97	6.0E-84	AF038991.1	NT	Homo sapiens pre-mRNA splicing factor (PRP16) mRNA, complete cds
7972	20867	33789	2.37	6.0E-84	BE770199.1	EST_HUMAN	PM4-FT0054-180600-004-s10 FT0054 Homo sapiens cDNA
897	13472	28121	0.71	5.0E-84	AA382811.1	EST_HUMAN	EST198094 Testis 1 Homo sapiens cDNA 5' end
3013	15779		1.82	5.0E-84	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
6015	18796	31758	0.59	5.0E-84	AA167678.1	EST_HUMAN	zq39e07.11 Stratagene hNT neuron (#837233) Homo sapiens cDNA clone IMAGE:832100 5' similar to TR:G483915 G483915 RETROTRANSCRIPTABLE L1 ELEMENT LRE2 FROM CHROMOSOME 1Q. ;
11633	24133	37438	3.17	5.0E-84	11428740	NT	Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RFX3), mRNA
11652	24249	37570	1.77	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11652	24249	37571	1.77	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11813	24401	37738	1.44	5.0E-84	11433550	NT	Homo sapiens tropomodulin 2 (neuronal) (TMO2), mRNA
1389	14136	26812	2.19	4.0E-84	AI685321.1	EST_HUMAN	wa76c04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2302086 3' similar to SW:NRDC_HUMAN O43847 NARDILYSIN PRECURSOR ;
4897	17624	30242	1.79	4.0E-84	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
5475	18274	31168	1.36	4.0E-84	11386168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
5475	18274	31169	1.36	4.0E-84	11386168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
6175	18952	31925	1.88	4.0E-84	AF059650.1	NT	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
7547	20217	33319	14.38	4.0E-84	11421326	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8809	21501	34847	1.21	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8809	21501	34848	1.21	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
10835	23517	36759	4.51	4.0E-84	AB032956.1	NT	Homo sapiens mRNA for KIAA1130 protein, partial cds
308	13112	25752	1.24	3.0E-84	AF026200.1	NT	Homo sapiens Bach1 protein homolog mRNA, partial cds
1953	14888	27401	1.75	3.0E-84	5453855	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
2001	14736	27460	2.41	3.0E-84	AL096880.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
3578	18333	28977	1.07	3.0E-84	AB026868.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
3731	18483	29121	5.2	3.0E-84	AF014459.1	NT	Homo sapiens X-linked juvenile retinoschleis precursor protein (XLR51) mRNA, complete cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10790	23473		3.55	3.0E-84	AI98380.1	EST_HUMAN	wu20405.x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2520585 3' similar to gb:L05093.605 RIBOSOMAL PROTEIN L18A (HUMAN);
2098	14829	27663	6.94	2.0E-84	BE696397.1	EST_HUMAN	CM1-BT0795-190600-272-b08 BT0795 Homo sapiens cDNA
2098	14829	27664	6.94	2.0E-84	BE696397.1	EST_HUMAN	CM1-BT0795-190600-272-b08 BT0795 Homo sapiens cDNA
2944	16710	28362	9.31	2.0E-84	AF036943.1	NT	Homo sapiens myelin transcription factor 1-like (MTF1-L) mRNA, complete cds
2962	15728	28378	0.77	2.0E-84	X8921.1	NT	H sapiens DNA for endogenous retroviral like element
5439	18238	30952	0.92	2.0E-84	BF511575.1	EST_HUMAN	UI-H-BI4-ad-a-02-0-UI.s1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
5439	18238	30953	0.92	2.0E-84	BF511575.1	EST_HUMAN	UI-H-BI4-ad-a-02-0-UI.s1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
6540	19305	32310	0.75	2.0E-84	H63370.1	EST_HUMAN	yr56e11.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:209324 3'
7956	20651		1.35	2.0E-84	AI298874.1	EST_HUMAN	qm87c09.x1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1895728 3'
8284	20978	34118	0.49	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8284	20978	34119	0.49	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9246	21924	35094	0.81	2.0E-84	AU120280.1	EST_HUMAN	AU120280 HEMBB1 Homo sapiens cDNA clone HEMBB1000339 5'
9631	22283	35476	0.61	2.0E-84	H22841.1	EST_HUMAN	ym49e11.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:51383 5' similar to SP:APOH_RAT
12159	24643	31100	3	2.0E-84	BF448000.1	EST_HUMAN	P26844 BETA-2-GLYCOPROTEIN I;
12159	24643	31101	3	2.0E-84	BF448000.1	EST_HUMAN	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q9UGS3 Q9UGS3 DJ756G23.1;
304	13108	25748	1.89	1.0E-84	AF114488.1	NT	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q9UGS3 Q9UGS3 DJ756G23.1;
536	13319	25953	20.64	1.0E-84	4507952	NT	Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide (YWHAZ) mRNA
703	13478		1	1.0E-84	11427631	NT	Homo sapiens complement component 5 (C5), mRNA
1270	14079	26685	3.17	1.0E-84	AA984379.1	EST_HUMAN	am55b11.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:1629885 3'
2048	14781	27508	1.92	1.0E-84	BE392137.1	EST_HUMAN	601308006F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3626257 5'
2220	14948	27686	1.13	1.0E-84	11427197	NT	Homo sapiens pericentriolar material 1 (PCM1), mRNA
3733	16486	29123	2.46	1.0E-84	AA720851.1	EST_HUMAN	rw12a06.s1 NCI CGAP_SSI1 Homo sapiens cDNA clone IMAGE:1239106 3'
4383	17120	29762	5.01	1.0E-84	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4651	17385	30017	3.53	1.0E-84	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
4651	17385	30018	3.53	1.0E-84	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
4855	17120	29752	2.67	1.0E-84	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
5153	17870	30483	1.15	1.0E-84	7856969	NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
5830	18619	31551	0.98	1.0E-84	11434422	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6097	18875	31844	1.41	1.0E-84	S73482.1	NT	uterine water channel-28 kda erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 nt]
6781	19525	32552	1.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
6781	19525	32553	1.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7007	19899	32753	2.32	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7369	20049	33130	1.26	1.0E-84	8393994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
7501	20137	33229	2.42	1.0E-84	11430846	NT	Homo sapiens NGFI-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
9435	22113		3.05	1.0E-84	5031984	NT	Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15) mRNA
9670	22322	36519	0.53	1.0E-84	AF224511.1	NT	Homo sapiens Ca2+-binding protein CABP3 (CABP3) gene, exon 6 and partial cds
9890	17900	30588	3.05	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
9890	17900	30588	3.05	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10498	23142	36368	1.08	1.0E-84	11437356	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIA4), mRNA
12046	24566		2.34	1.0E-84	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RX1), mRNA
12151	24638	31096	3.2	1.0E-84	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
946	13712		1.06	9.0E-85	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
1051	13810	26469	2.39	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1051	13810	26470	2.39	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1380	14108	26783	0.95	9.0E-85	4758669	NT	Homo sapiens eupaxin (LDPL), mRNA
1572	14319	27004	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1670	14415	27108	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
4225	16968	29591	0.96	9.0E-85	AL163280.2	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4824	17555	30177	0.96	9.0E-85	5901979	NT	Homo sapiens chromosome 21 segment HS21C080
4856	17585	30208	1.12	9.0E-85	AL163268.2	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
1114	13871	26530	1.45	7.0E-85	L05094.1	NT	Homo sapiens chromosome 21 segment HS21C068
11942	24239		4.32	7.0E-85	AF113210.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
11392	23998	37300	3.35	6.0E-85	11438573	NT	Homo sapiens MSTP030 mRNA, complete cds
11392	23998	37301	3.35	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11766	24357	37690	1.29	6.0E-85	AA403053.1	EST_HUMAN	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
2332	15056	27792	1.49	5.0E-85	AL163284.2	NT	z82b01.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728895 5' similar to TR:G1335769 G1335769 GAG-POLYPROTEIN. ;
							Homo sapiens chromosome 21 segment HS21C084



Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4399	17136		0.8	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-a isoform (CACNA1I) mRNA, complete cds
5364	18166	30851	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862402 5'
5364	18166	30852	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862402 5'
11063	23733	37005	2	5.0E-85	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12743	17136		5.28	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-a isoform (CACNA1I) mRNA, complete cds
6056	18836	31797	1.51	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
6056	18836	31798	1.51	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
10472	23118		1.3	4.0E-85	BE079263.1	EST_HUMAN	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA
1276	14026	26694	2.98	3.0E-85	AF096157.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
1773	14515	27215	3.51	3.0E-85	T97495.1	EST_HUMAN	ys53g03.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:121504 5'
4280	17019	29646	6.53	3.0E-85	BE267199.1	EST_HUMAN	601189704F2 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3533616 5'
4841	17571	30194	1.45	3.0E-85	11024695	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
4841	17571	30195	1.45	3.0E-85	11024695	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
5316	18120	30777	1.07	3.0E-85	11436001	NT	Homo sapiens lectin-like protein rich protein (LPRP), mRNA
5994	18775	31737	0.63	3.0E-85	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
6043	18823	31783	5.71	3.0E-85	7662309	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
6043	18823	31784	5.71	3.0E-85	7662309	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
6853	19553		7.79	3.0E-85	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9) gene
7295	19978	33055	0.91	3.0E-85	11416870	NT	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 protein (KIAA0621), mRNA
7771	20467	33591	1.89	3.0E-85	U44953.1	NT	Homo sapiens DENN mRNA, complete cds
8406	21099	34235	0.74	3.0E-85	11525828	NT	Homo sapiens CGI-81 protein (LOC51108), mRNA
8877	21598	34712	3.8	3.0E-85	11430889	NT	Homo sapiens phospholipase C, epsilon (PLCE), mRNA
9206	22085	35257	0.96	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRNPB2), mRNA
9206	22085	35258	0.96	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRNPB2), mRNA
10381	23027	36242	0.56	3.0E-85	AF098642.1	NT	Homo sapiens phospholipid scramblase mRNA, complete cds
10730	23418	36659	1.88	3.0E-85	BE150392.1	EST_HUMAN	RC1-H70268-031299-012-09 HT0268 Homo sapiens cDNA
11490	24091	37403	2.25	3.0E-85	5031680	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
11824	24408	37742	1.79	3.0E-85	AB028030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
11824	24408	37743	1.79	3.0E-85	AB028030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
12640	24937		1.98	3.0E-85	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1017	13777	26438	2.34	2.0E-85	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1383	14130	26803	0.97	2.0E-85	7706205	NT	Homo sapiens CGI-201 protein (LOC51340), mRNA
1399	14146	26824	8.28	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1399	14146	26825	8.28	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
2226	14954	27692	1.53	2.0E-85	U10525.1	NT	Human DNA polymerase beta gene, exons 12 and 13
2828	14083		5.28	2.0E-85	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3022	15788	28435	1.18	2.0E-85	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4300	17039	29666	4.51	2.0E-85	4505860	NT	Homo sapiens plasminogen (PLG) mRNA
4527	17262	29896	1.22	2.0E-85	4826977	NT	Homo sapiens reelin (RELN) mRNA
4854	17384	30207	0.97	2.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9173	21843	35009	3.18	2.0E-85	A1760820.1	EST_HUMAN	wi67H08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398431 3' similar to contains element
8549	22202	35385	1.08	2.0E-85	A1914459.1	EST_HUMAN	MSR1 repetitive element
10162	22810	36028	1.32	2.0E-85	A1866394.1	EST_HUMAN	w449403.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2331461 3'
2285	15010		2.86	1.0E-85	BE794306.1	EST_HUMAN	wm94d12.x1 NCI_CGAP_U2 Homo sapiens cDNA clone IMAGE:2443607 3'
2392	15113	27850	8.42	1.0E-85	BE618392.1	EST_HUMAN	6011591416F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945618 5'
2392	15113	27851	8.42	1.0E-85	BE618392.1	EST_HUMAN	6014628177F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866021 5'
9681	22333	35528	4.38	1.0E-85	BE257817.1	EST_HUMAN	601109739F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350553 5'
10842	23524	36766	2.77	1.0E-85	AA778785.1	EST_HUMAN	6014628177F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866021 5'
10842	23524	36767	2.77	1.0E-85	AA778785.1	EST_HUMAN	601109739F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350553 5'
10919	23599	36847	1.73	1.0E-85	BF311552.1	EST_HUMAN	z45f03.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10919	23599	36848	1.73	1.0E-85	BF311552.1	EST_HUMAN	z45f03.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10997	23670	36927	1.28	1.0E-85	Y00052.1	NT	Human mRNA for T-cell cyclophilin
11773	24364	37696	2.41	1.0E-85	A1198420.1	EST_HUMAN	q156a07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1860468 3'
12050	24722	31053	4.4	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12295	24722	31053	4.74	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1409	14156		11.19	9.0E-86	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967690 5'
11698	24293	37618	1.57	8.0E-86	4503224	NT	Homo sapiens cytochrome P450, subfamily 11F, polypeptide 1 (CYP2F1) mRNA
916	13683	26345	2.34	7.0E-86	AA860801.1	EST_HUMAN	q188f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
916	13683	26346	2.34	7.0E-86	AA860801.1	EST_HUMAN	q188f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6103	18881	31848	1.02	7.0E-86	9966896	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6103	18881	31849	1.02	7.0E-86	9966896	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6880	17956	30553	6.65	7.0E-86	11421737	NT	Homo sapiens Tax1 (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA
8643	21335	34479	3.06	7.0E-86	L38557.1	NT	Homo sapiens galactose oxidase (GALC) gene, exon 15

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9599	22252		1.39	7.0E-86	5453987	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9658	22310	35508	2.27	7.0E-86	11526307	NT	Homo sapiens DGeorge syndrome critical region gene 6 (DGCR6), mRNA
10882	23562	36809	1.72	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
10882	23562	36810	1.72	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
1271	14020	26686	2.88	6.0E-86	4505492	NT	Homo sapiens oxoglutarate dehydrogenase (lipamide) (OGDH), mRNA
5105	17823	30440	2.64	6.0E-86	Y18139.1	NT	Homo sapiens enteropeptidase gene, exons 20 and 21
5107	17825	30442	1.07	6.0E-86	6005833	NT	Homo sapiens 24 kDa intrinsic membrane protein (PMP24), mRNA
206	13018	25660	4.98	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
5944	18726	31684	12.1	4.0E-86	BE295843.1	EST_HUMAN	601176865F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531953 5'
11205	13018	25660	2.18	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
5509	18307	31208	6.97	3.0E-86	AW340846.1	EST_HUMAN	x292h12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871719 3'
8160	20854	33985	1.05	3.0E-86	AV722329	EST_HUMAN	AV722329 HTB Homo sapiens cDNA clone HTBBS04 5'
10120	22768	35980	3.37	3.0E-86	BE886479.1	EST_HUMAN	601503666F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
10120	22768	35981	3.37	3.0E-86	BE886479.1	EST_HUMAN	601503666F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
11413	23180	36408	5.14	3.0E-86	AI659240.1	EST_HUMAN	u18b02.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2251371 3'
11708	24303	37628	1.6	3.0E-86	11037056	NT	Homo sapiens myosin X (MYO10), mRNA
260	13068	25706	2.02	2.0E-86	AA306264.1	EST_HUMAN	EST177232 Jurkat T-cells V1 Homo sapiens cDNA 5' end
405	13190		2.59	2.0E-86	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1168	13922	26384	3.21	2.0E-86	N58977.1	EST_HUMAN	yzt19a08.r1 Soares_multiple_sclerosis_2NBHMSHP Homo sapiens cDNA clone IMAGE:283478 5'
1478	14225	26910	1.93	2.0E-86	4758827	NT	Homo sapiens neuraxin III (NRXN3) mRNA
1478	14225	26911	1.93	2.0E-86	4758827	NT	Homo sapiens neuraxin III (NRXN3) mRNA
2188	14917	27651	5.09	2.0E-86	9635487	NT	Human endogenous retrovirus, complete genome
2266	14992	27732	1.55	2.0E-86	AB033103.1	NT	Homo sapiens mRNA for KIAA1277 protein, partial cds
3410	16168	28817	1.3	2.0E-86	AW966142.1	EST_HUMAN	EST378216 IMAGE resequences, MAGI Homo sapiens cDNA
3729	16481	29118	3.54	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3729	16481	29119	3.54	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
4019	16765		2.84	2.0E-86	AW515742.1	EST_HUMAN	hd87g08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2916542 3'
4737	17469	30106	3.28	2.0E-86	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
5782	18573	31501	1.62	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5782	18573	31502	1.52	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6974	25098	32476	0.69	2.0E-86	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
7908	20603	33733	0.69	2.0E-86	U84744.1	NT	Human Chediak-Higashi syndrome protein short isoform (LYST) mRNA, complete cds
8414	21107		0.47	2.0E-86	AL169222.2	NT	Homo sapiens chromosome 21 segment HS21C027

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8472	21164	34307	2.31	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8472	21164	34308	2.31	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8801	21493	34840	0.65	2.0E-86	10863876	NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
8218	21897	35067	1.95	2.0E-88	11422084	NT	Homo sapiens chromosome segregation 1 (yeast homolog)-like (CSE1L), mRNA
10345	22992	36210	2.91	2.0E-86	11545846	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10345	22992	36211	2.91	2.0E-86	11545846	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10400	23046	36262	1.15	2.0E-88	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
10820	23503	36742	2.54	2.0E-86	4759051	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS9K46) mRNA
12458	24827	31027	3.07	2.0E-86	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12621	24928		4.28	2.0E-86	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1592	14338	27027	2.28	1.0E-86	4826855	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) (NDUFS1) mRNA
3160	15923	28569	1.5	1.0E-86	5453649	NT	Homo sapiens fibulin 5 (FBLN5) mRNA
3229	15992	28645	2.7	1.0E-86	L20492.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
3290	16051	28699	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3290	16051	28700	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3928	16676	29318	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
3928	16676	29319	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
4233	16974	29599	5.2	1.0E-86	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4578	17313	29941	1.23	1.0E-86	4507334	NT	Homo sapiens synaptobrevin 1 (SVNU1), mRNA
5465	18284	31155	2	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
11608	18284	31155	1.37	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
6272	18078		1.81	9.0E-87	AI150703.1	EST_HUMAN	gb77c09.x1 Soares fetal heart Nbt-H19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ_MOUSE P02655 KERATIN, TYPE I CYTOSKELETAL 10
7348	20029	33105	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7348	20029	33106	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
467	13252	25893	15.93	8.0E-87	X62245.1	NT	O cuniculus mRNA for elongation factor 1 alpha
2294	15019	27755	1.79	7.0E-87	BF063211.1	EST_HUMAN	7h8502.x1 NCI CGAP Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
2294	15019	27756	1.79	7.0E-87	BF063211.1	EST_HUMAN	7h8502.x1 NCI CGAP Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
6307	19079	32064	0.57	7.0E-87	AF090336.1	EST_HUMAN	MR0-NT0039-020500-004-at1 NT0039 Homo sapiens cDNA
8089	20763	33913	3.4	7.0E-87	BF352776.1	EST_HUMAN	IL3-HT0619-060700-198-D10 HT0619 Homo sapiens cDNA
9354	20425	33544	1.15	7.0E-87	BE712861.1	EST_HUMAN	IL3-HT0702-160600-103-d06 HT0702 Homo sapiens cDNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9971	22619	35822	3.85	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
9971	22619	35823	3.85	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
10366	25128		0.51	7.0E-87	A081565.1	EST_HUMAN	ox59h01.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1660657 3'
10808	23489	36724	6.65	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A
10806	23489	36725	6.65	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A
3517	16273	28927	0.99	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
5128	17846	30463	0.69	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
6327	19097	32085	2.02	6.0E-87	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
10625	23318		4.13	6.0E-87	11432444	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC63102), mRNA
1135	13891	26551	1.42	5.0E-87	AA382811.1	EST_HUMAN	EST96094 Testis 1 Homo sapiens cDNA 5' end
12297	13891	26551	1.56	5.0E-87	AA382811.1	EST_HUMAN	EST96094 Testis 1 Homo sapiens cDNA 5' end
945	13711	26376	1.51	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1149	13904	26566	13.58	4.0E-87	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
2024	14759	27488	1.53	4.0E-87	AB007925.1	NT	Homo sapiens mRNA for KIAA0456 protein, partial cds
2421	15142	27874	1.03	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
2421	15142	27876	1.03	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
3457	16213	28866	1.8	4.0E-87	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (lithorax (Drosophila) homolog), translocated to, 4 (MLLT4) mRNA
5360	18162	30846	2.77	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLOCATION VARIANT 2)
5954	18736	31695	4.53	4.0E-87	BE247284.1	EST_HUMAN	TCBAP1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4051
7670	20334	33445	0.72	4.0E-87	L48524.1	NT	Homo sapiens tuberin (TSC2) gene, exon 10
11118	23788	37065	3.44	4.0E-87	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
12398	25266	30721	1.5	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12398	25266	30722	1.5	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12541	24881		2.25	4.0E-87	11417812	NT	Homo sapiens putative receptor P2X-like 1, orphan receptor (P2RXL1), mRNA
2779	15484	28223	2.77	2.0E-87	4885420	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA
3764	16516	29154	0.83	2.0E-87	AU116935.1	EST_HUMAN	AU116935 HEMBA1 Homo sapiens cDNA clone HEMBA1000307 5'
4857	17596	30209	1.26	2.0E-87	BF376311.1	EST_HUMAN	CMO-TN0038-150300-552-h08 TN0038 Homo sapiens cDNA
4807	17634	30249	1.47	2.0E-87	BE175478.1	EST_HUMAN	RC5-HT0580-200300-031-G04 HT0580 Homo sapiens cDNA
5575	18372	31284	10.34	2.0E-87	BE734190.1	EST_HUMAN	60156904F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
5575	18372	31285	10.34	2.0E-87	BE734190.1	EST_HUMAN	60156904F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
6234	19008		9.81	2.0E-87	BE567193.1	EST_HUMAN	601341383F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3683348 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6599	19362	32375	0.89	2.0E-87	N48128.1	EST_HUMAN	yw21e07.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:243396 5'
6883	19600	32638	0.81	2.0E-87	AV654143.1	EST_HUMAN	AV654143 GLC Homo sapiens cDNA clone GLODSG04 3'
7073	19764	32828	1.58	2.0E-87	BE294432.1	EST_HUMAN	601176032F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531511 5'
7128	19814	32862	0.94	2.0E-87	11433046	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
7353	20034	33112	39.61	2.0E-87	N48128.1	EST_HUMAN	yw21e07.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:243396 5'
7687	20255	33362	35.45	2.0E-87	N48128.1	EST_HUMAN	yw21e07.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:243396 5'
8264	20988	34127	17.42	2.0E-87	X52851.1	NT	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
8685	22337		5.72	2.0E-87	BE531136.1	EST_HUMAN	601278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3810539 5'
1159	15521		2.09	1.0E-87	7705683	NT	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA
1411	14158	26840	1.1	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0285-141099-001-g04 CT0285 Homo sapiens cDNA
1411	14158	26841	1.1	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0285-141099-001-g04 CT0285 Homo sapiens cDNA
3687	16451	29090	6.23	1.0E-87	Y00052.1	NT	Human mRNA for T-cell cyclophilin
3717	16470	29108	2.43	1.0E-87	4756827	NT	Homo sapiens neurexin III (NRXN3) mRNA
5085	17814	30431	0.89	1.0E-87	AF114487.1	NT	Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds
5095	17814	30432	0.89	1.0E-87	AF114487.1	NT	Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds
5148	12933	25570	1.04	1.0E-87	A1004091.1	EST_HUMAN	050d04.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1620199 3'
6132	18910	31878	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
6132	18910	31878	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7077	19768	32832	0.82	1.0E-87	AF039517.1	NT	Homo sapiens corticotrophin-releasing factor type 1 receptor gene, exon 8
7077	19768	32833	0.82	1.0E-87	AF039517.1	NT	Homo sapiens corticotrophin-releasing factor type 1 receptor gene, exon 8
7083	19773	32838	1.18	1.0E-87	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
7288	19981	33057	1.23	1.0E-87	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
8016	20710	33840	12.83	1.0E-87	AF214562.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8807	21499	34644	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
8807	21499	34645	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9633	22188	35371	2.85	1.0E-87	BE18183.1	EST_HUMAN	RC6-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
9633	22188	35372	2.85	1.0E-87	BE18183.1	EST_HUMAN	RC6-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
10272	22920	36131	0.87	1.0E-87	M34426.1	NT	Human L-plastin mRNA, 5' end
10633	23325	36562	1.55	1.0E-87	5729867	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
10921	23601		1.92	1.0E-87	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
10965	23641	36893	1.68	1.0E-87	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
10965	23641	36894	1.68	1.0E-87	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
12993	25404		3.54	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
12908	25240		3.94	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1084	13842	26500	10.24	9.0E-88	AF167465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1327	14076	26750	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
1327	14076	26751	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
2116	14848	27575	1.57	9.0E-88	766170.1	NT	Homo sapiens DKFZP886P1522 protein (DKFZP886P1522), mRNA
3617	15370	29012	1.35	9.0E-88	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4236	16977	29602	2.73	9.0E-88	X91929.1	NT	H. sapiens ECE-1 gene (exon 9)
4236	16977	29603	2.73	9.0E-88	X91929.1	NT	H. sapiens ECE-1 gene (exon 9)
4943	17670	30279	1.05	9.0E-88	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
8919	21610	34754	3.82	6.0E-88	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1820	14559		1.02	5.0E-88	7661887	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
2645	15355	28100	3.76	5.0E-88	N89399.1	EST_HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
3000	15766	28414	0.9	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
3384	16143		2.28	5.0E-88	A1693217.1	EST_HUMAN	w68h08.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to contains Alu repetitive element; contains element MER22 MER22 repetitive element;
4687	17421	30056	0.83	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
6672	19589	32625	3.19	5.0E-88	H10932.1	EST_HUMAN	ym06b10.1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:47129 5'
7830	20526	33650	1.8	5.0E-88	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9211	21890	35057	0.45	5.0E-88	BF680206.1	EST_HUMAN	602154858F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4285775 5'
1306	14055	26729	1.42	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
1306	14055	26730	1.42	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
7143	19830	32899	1.43	4.0E-88	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68KD (TGFB), mRNA
10827	23509	36749	1.8	4.0E-88	4502694	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
11471	24072	37380	1.89	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
11471	24072	37381	1.89	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
715	13489	26140	1.85	3.0E-88	11545600	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
1805	14546		1.96	3.0E-88	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
2948	15714	26367	4.11	3.0E-88	N66951.1	EST_HUMAN	zs48f12.s1 Scores fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:285823 3'
4216	16957	29579	1.24	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4216	16957	29580	1.24	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4444	17180		4.09	3.0E-88	11429300	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
5216	18024	30648	2.85	3.0E-88	11429567	NT	Homo sapiens valosin-containing protein (VCP), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5498	18296	31194	4.13	3.0E-88	9886888	NT	Homo sapiens polycythemia rubra vera 1; cell surface receptor (PRV1), mRNA
5618	18414	31327	3.56	3.0E-88	11420697	NT	Homo sapiens v-rel simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
6069	18848	31812	0.61	3.0E-88	11417370	NT	Homo sapiens interleukin 13 (IL13), mRNA
6319	25088	32076	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6319	25088	32077	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6865	18447	32465	14.59	3.0E-88	AF278266.1	NT	Homo sapiens putative anion transporter 1 mRNA, complete cds
7440	20117	33206	6.15	3.0E-88	11436400	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
7821	20516	33642	9.58	3.0E-88	11421726	NT	Homo sapiens growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) (GDF5), mRNA
8096	20790	33921	1.35	3.0E-88	AF034374.1	NT	Homo sapiens molybdenum cofactor biosynthesis protein A and molybdenum cofactor biosynthesis protein C mRNA, complete cds
9334	20405	33521	1.99	3.0E-88	11528262	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
9828	22478	35680	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9828	22478	35681	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9857	22507	35705	1.28	3.0E-88	11439066	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
12139	24828		5.97	3.0E-88	11417874	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1013	13773	26432	3.32	2.0E-88	7305198	NT	Homo sapiens Calsenilin, presenilin-binding protein, EF hand transcription factor (CSEN), mRNA
1620	14367	27056	1.38	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1744	14486	27185	3.13	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3456	16214	28867	1.52	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4391	17128	29760	2.13	2.0E-88	5031666	NT	Homo sapiens dynein, axonemal, light polypeptide 4 (DNAL4), mRNA
5821	18610	31539	5.63	1.0E-88	AW139565.1	EST_HUMAN	U1H-B11-aaa-d-04-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718760 3'
5821	18610	31540	5.63	1.0E-88	AW139565.1	EST_HUMAN	U1H-B11-aaa-d-04-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718760 3'
6548	19313	32317	23.81	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6548	19313	32318	23.81	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
7022	19714	32771	1.4	1.0E-88	A1969034.1	EST_HUMAN	wa70a12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2476606 3'
7064	19774	32839	4.42	1.0E-88	AA488981.1	EST_HUMAN	ae64a11.s1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP.B0272.2 CE00851;
8141	21872	35037	0.6	1.0E-88	AA190368.1	EST_HUMAN	zp87c02.1 Stragene HeLa cell c3 937216 Homo sapiens cDNA clone IMAGE:827170 5' similar to SW.POL1_HUMAN P10266 RETROVIRUS-RELATED POL POLYPROTEIN;
9478	22131	35311	2.97	1.0E-88	AL043314.2	EST_HUMAN	DKFZp434N0323 J1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
11422	23189	36420	2.99	1.0E-88	AA991479.1	EST_HUMAN	cs91g03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1612756 3' similar to gbM16342 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
12356	24760		3	1.0E-88	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046



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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2739	15445	28184	1.33	8.0E-89	BE311557.1	EST_HUMAN	601142409F1 NIH_MGC_14 Homo sapiens cDNA IMAGE:3506186 5'
6833	19495	32519	1.2	8.0E-89	11421514	NT	Homo sapiens similar to senna domain, immunoglobulin domain (Ig), short basic domain, secreted, (serpaphorin) 3A (H. sapiens) (LOC63232), mRNA
424	13210	25856	1.72	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
424	13210	25857	1.72	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
4828	17559	30181	2.86	7.0E-89	4557390	NT	Homo sapiens complement component 8, beta polypeptide (C8B), mRNA
4878	17605	30228	3.35	7.0E-89	AL045748.1	EST_HUMAN	DKFZp434E246_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E246 5'
5345	18148	30827	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
5345	18148	30828	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
6250	19024	31997	0.57	7.0E-89	7549808	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
6250	19024	31998	0.57	7.0E-89	7549808	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
7398	20076	33156	2.06	7.0E-89	11420754	NT	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA
7779	20474	33598	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
7779	20474	33599	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9584	22237	35421	0.6	7.0E-89	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
10429	23075	36296	1.11	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
10429	23075	36297	1.11	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
10445	23091	36320	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
10445	23091	36321	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
11203	23887	37154	1.45	7.0E-89	M59783.1	NT	Homo sapiens aldose reductase (AR) gene, segment 2
12774	25028		1.7	7.0E-89	U87927.1	NT	Human aconitase hydratase (ACO2) gene, exon 2
1002	13762	26423	0.73	6.0E-89	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
2210	14938	27676	1.27	6.0E-89	4506124	NT	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4), mRNA
2434	15155	27888	1.06	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L3 (UBE2L3), mRNA
2434	15155	27889	1.06	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L3 (UBE2L3), mRNA
3515	16271	28925	0.88	6.0E-89	7861817	NT	Homo sapiens HSPC159 protein (HSPC159), mRNA
4593	17328	29954	3.02	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
4593	17328	29955	3.02	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
5100	17818	30436	0.81	6.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5100	17819	30437	0.81	6.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5016	17737	30345	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project=TCBA Homo sapiens cDNA clone TCBAP0383
5016	17737	30346	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project=TCBA Homo sapiens cDNA clone TCBAP0383

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7487	20159	33251	1.95	4.0E-89	BE762749.1	EST_HUMAN	QV3-NT0022-080600-219-g03 NT0022 Homo sapiens cDNA
11088	23758	37034	1.56	4.0E-89	AJ798672.1	EST_HUMAN	we01c03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348452 3'
2878	15648	28289	1.51	3.0E-89	AW976181.1	EST_HUMAN	EST388290 IMAGE resequences, MAGN Homo sapiens cDNA
7040	19731	32790	1.26	3.0E-89	AJ217359.1	EST_HUMAN	qh17b06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844915 3'
10502	23148	36374	0.48	3.0E-89	AB002297.1	NT	Human mRNA for KIAA0289 gene, partial cds
10702	23393	36830	2.34	3.0E-89	N57357.1	EST_HUMAN	yw85e11.r1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:259148 5'
123	13184	25832	0.87	2.0E-89	7706670	NT	similar to SW:PI4K_HUMAN P42356 PHOSPHATIDYLINOSITOL 4-KINASE ALPHA ;
123	13184	25833	0.87	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
399	13184	25832	1.55	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
399	13184	25833	1.55	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
517	13301	25933	3.17	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2883	15650	28293	1.53	2.0E-89	AJ222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131
3540	16296	28946	1.01	2.0E-89	AA759149.1	EST_HUMAN	GAMMA-GLUTAMYLTRANSFERASE 1 PRECURSOR (HUMAN); contains Alu repetitive element
3540	16296	28947	1.01	2.0E-89	AA759149.1	EST_HUMAN	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
4125	16867	29494	1.26	2.0E-89	AF089897.1	NT	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
4133	16875	29504	5.16	2.0E-89	X58742.1	NT	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds
4133	16875	29505	5.16	2.0E-89	X58742.1	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4315	17054	29679	0.75	2.0E-89	AL163203.2	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4463	17199	29825	1.1	2.0E-89	AJ007378.1	NT	Homo sapiens chromosome 21 segment HS21C003
5259	18065		0.86	2.0E-89	BE541744.1	EST_HUMAN	Homo sapiens GGT gene, exon 5
5393	18183	30886	2.9	2.0E-89	AB007546.1	NT	601065896F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452423 5'
5702	18486	31418	1.61	2.0E-89	U03985.1	NT	Homo sapiens gene for LECT2, complete cds
6116	18894	31861	0.63	2.0E-89	AL163285.2	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
7567	20237	33341	5.33	2.0E-89	U81004.1	NT	Homo sapiens chromosome 21 segment HS21C085
7835	20530	33957	3.07	2.0E-89	11428801	NT	Human GT24 (GT24) mRNA, partial cds
8316	21009	34146	1.02	2.0E-89	AJ245903.1	NT	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA
9152	21883	35052	0.6	2.0E-89	AB037754.1	NT	Homo sapiens partial mRNA for PEX5 related protein
9710	22361	35557	0.68	2.0E-89	AF170814.1	NT	Homo sapiens mRNA for KIAA1333 protein, partial cds
9710	22361	35558	0.68	2.0E-89	AF170814.1	NT	Homo sapiens CaBP5 (CABP5) gene, exon 5
9710	22361	35558	0.68	2.0E-89	AF170814.1	NT	Homo sapiens CaBP5 (CABP5) gene, exon 5

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11346	24036	37339	2.83	2.0E-89	11434411	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
11448	23215	36447	2.3	2.0E-89	5729867	NT	Homo sapiens hec domain and RLD 2 (HERC2), mRNA
11562	24161	37472	5.03	2.0E-89	11433673	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
11718	24312	37636	2.11	2.0E-89	U10692.1	NT	Human IMAGE-7 antigen (IMAGE7) pseudogene, complete cds
11570	24169	37483	5.97	1.0E-89	BF196052.1	EST_HUMAN	hr81d09.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
11570	24169	37484	5.97	1.0E-89	BF196052.1	EST_HUMAN	hr81d09.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
8126	20820	33956	1.57	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
8126	20820	33957	1.57	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
10421	13801	26459	2.23	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
10421	13801	26459	2.9	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1307	15565	26731	3.78	8.0E-90	BE670561.1	EST_HUMAN	7a36f08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
1307	15565	26732	3.78	8.0E-90	BE670561.1	EST_HUMAN	7a36f08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
8458	21150	34293	0.55	8.0E-90	BE177830.1	EST_HUMAN	RC1-HT0598-120-400-022-608 HT0598 Homo sapiens cDNA
10599	23293	36531	1.52	8.0E-90	AI222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
10599	23293	36532	1.52	8.0E-90	AI222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
10963	23639	36889	1.32	8.0E-90	AA705222.1	EST_HUMAN	z82g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
10963	23639	36890	1.32	8.0E-90	AA705222.1	EST_HUMAN	z82g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
816	13587		4.12	7.0E-90	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8323	21016		2.08	7.0E-90	AA792977.1	EST_HUMAN	ab3c08.s1 Soares_testis_NHT Homo sapiens cDNA clone 1375503 3'
8865	21556	34701	1.62	7.0E-90	BE962525.2	EST_HUMAN	607165537R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
8865	21556	34702	1.62	7.0E-90	BE962525.2	EST_HUMAN	607165537R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
10036	22684	35901	1.9	7.0E-90	H68849.1	EST_HUMAN	yr86e04.s1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC ;
10036	22684	35902	1.9	7.0E-90	H68849.1	EST_HUMAN	yr86e04.s1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10352	22989	36216	1.17	7.0E-90	BF526089.1	EST_HUMAN	602071208F1 NC1 CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214257 5'
4201	16942	29568	9.12	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
4201	16942	29569	9.12	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
5894	18679	31625	3.27	6.0E-90	U77700.1	NT	Homo sapiens HSGON1 mRNA, partial cds
5884	18679	31626	3.27	6.0E-90	U77700.1	NT	Homo sapiens HSGON1 mRNA, partial cds
8225	20919	34056	2.75	6.0E-90	4504794	NT	Homo sapiens Inositol 1,4,5-trisphosphate receptor, type 3 (ITPR3) mRNA
8225	20919	34057	2.75	6.0E-90	4504794	NT	Homo sapiens Inositol 1,4,5-trisphosphate receptor, type 3 (ITPR3) mRNA
151	12966		19.84	5.0E-90	AB035344.1	NT	Homo sapiens TGL6 gene, exon 1-10b
1170	13924	26586	3.08	5.0E-90	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1813	14553	27267	1.47	5.0E-90	A1222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
1813	14553	27268	1.47	5.0E-90	A1222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
2503	15274	28011	2.79	5.0E-90	AF114487.1	NT	Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds
4503	17238	29871	2.05	5.0E-90	4506354	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4822	17357	29992	0.98	6.0E-90	AL135549.1	EST_HUMAN	DKFZp762P1616_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762P1616 5'
5504	18302	31203	2.94	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5606	18402	31316	1.31	5.0E-90	AB015617.1	NT	Homo sapiens ELKS mRNA, complete cds
5679	18302	31203	2.36	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6631	18393	32407	0.74	6.0E-90	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC58934), mRNA
6631	18393	32408	0.74	6.0E-90	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC58934), mRNA
7114	19802	32866	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	19802	32867	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7463	20136	33228	9.01	5.0E-90	4557258	NT	Homo sapiens adenylate cyclase 9 (ADCY9) mRNA
7790	20485	33609	0.44	5.0E-90	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
8192	20885	34025	5.08	5.0E-90	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
9096	21784	34950	0.93	5.0E-90	4826670	NT	Homo sapiens cadherin 18 (CDH18) mRNA
9579	22232	35416	1.06	5.0E-90	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
10181	22828	36044	0.56	5.0E-90	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10312	22958	36175	0.5	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10312	22958	36176	0.5	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10344	22961	36209	9.16	5.0E-90	11433721	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA
10402	23048	36264	0.54	5.0E-90	7682051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10402	23048	36266	0.54	5.0E-90	7682051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
11731	24324	37648	2.41	5.0E-90	7682047	NT	Homo sapiens KIAA0306 gene product (KIAA0306), mRNA
12591	24948		2.08	5.0E-90	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
12641	24938		4.43	5.0E-90	AB011399.1	EST_HUMAN	ar78h05.x1 Barstead aorta HPLR86 Homo sapiens cDNA clone IMAGE:2128761 3'
295	13101	25742	1.93	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
295	13101	25743	1.93	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
1084	13822	26482	3.26	4.0E-90	4505316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1684	14428	27125	8.09	4.0E-90	X96033.1	NT	H. sapiens gene encoding discoidin receptor tyrosine kinase, exon 16
2892	15758	28405	0.98	4.0E-90	AF007544.1	NT	Homo sapiens prostate-specific membrane antigen (PSM) gene, complete cds
3023	15789	28436	1.07	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3023	15789	28437	1.07	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4608	17343	29975	7.65	4.0E-90	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4743	17475	30109	2.17	4.0E-90	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4768	17500	30123	2.33	4.0E-90	M95967.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 8
7751	20447	33570	1.08	3.0E-90	BF516168.1	EST_HUMAN	UJH-BW1-amy-b-04-0-UJ.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
7751	20447	33571	1.08	3.0E-90	BF516168.1	EST_HUMAN	UJH-BW1-amy-b-04-0-UJ.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
11630	24227	37561	17.81	3.0E-90	BE883833.1	EST_HUMAN	601335244F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689147 5'
208	13020	25862	4.71	2.0E-90	BE537913.1	EST_HUMAN	601067378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453834 5'
1150	13905	26567	2.67	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1150	13905	26568	2.67	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
3826	16577	29209	1.7	2.0E-90	AI138213.1	EST_HUMAN	qc54c02.x1 Soares_placenta_8td9weeks_2NbHP8t09W Homo sapiens cDNA clone IMAGE:1713410 3'
4840	17374	30008	1.05	2.0E-90	AB006627.1	NT	similar to SW:OLF3_MOUSE_P23275 OLFACTORY RECEPTOR OR3.;
4853	17683	30206	7.31	2.0E-90	5729855	NT	Homo sapiens mRNA for KIAA0289 gene, partial cds
5895	18489	31410	4.86	2.0E-90	AW672686.1	EST_HUMAN	Homo sapiens GRB3-related adaptor protein (GRAP) mRNA
9689	22341	35534	4.78	2.0E-90	11427320	NT	be49d05.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2899881 5' similar to TR:O75208 O75208 HYPOTHETICAL 35.5 KD PROTEIN.;
9689	22341	35535	4.78	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (87kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
9860	22510	35706	1.37	2.0E-90	AU118985.1	EST_HUMAN	Homo sapiens similar to laminin receptor 1 (87kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA

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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9860	22510	35707	1.37	2.0E-90	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
11447	23214	36446	2.8	2.0E-90	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
270	13078	25720	4.55	1.0E-90	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
365	15516	25805	1.36	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
368	15516	25805	1.43	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
679	13454	26098	2.32	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
679	13454	26099	2.32	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
713	13487	26137	13.22	1.0E-90	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
713	13487	26138	13.22	1.0E-90	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1088	13846	26703	2.47	1.0E-90	4507828	NT	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLF7), mRNA
1283	14033	26703	5.56	1.0E-90	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1283	14033	26704	5.56	1.0E-90	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1662	14408	27342	1.23	1.0E-90	BE376984.1	EST_HUMAN	601159563F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511118 5'
1895	14632	27342	3.33	1.0E-90	11420514	NT	Homo sapiens similar to SALL1 (sal (Drosophila)-like (LOC57167), mRNA
2558	15626	28271	6.46	1.0E-90	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (C8ORF2), mRNA
4389	17126	29758	1.29	1.0E-90	AF167340.1	NT	Homo sapiens soluble interleukin 1 receptor accessory protein (IL1RAP) gene, exon 8, alternative exons 9 and complete cds, alternatively spliced
5589	18385	31295	2.58	1.0E-90	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
5746	18538	31460	0.96	1.0E-90	11426910	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6473	19240	32240	0.57	1.0E-90	11419406	NT	Homo sapiens cytochrome P450, 51 (lanosterol 14-alpha-demethylase) (CYP51), mRNA
6973	19455	32475	0.66	1.0E-90	U91834.1	NT	Human retina-derived POU-domain factor-1 mRNA, complete cds
7204	19889	32965	0.64	1.0E-90	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7571	20240	33345	2.77	1.0E-90	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
8720	21412	34555	3.73	1.0E-90	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
8193	21863	35062	0.96	1.0E-90	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9215	21894	35062	1.53	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
9215	21894	35063	1.53	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
10557	23253	36490	1.5	1.0E-90	R25686.1	EST_HUMAN	yg44d11r2 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:36477 5'
10967	23643	36896	1.76	1.0E-90	J04474.1	NT	Human branched chain alpha-keto acid dehydrogenase mRNA, 3' end
12580	24904	31001	1.49	1.0E-90	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12580	24904	31002	1.49	1.0E-90	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4172	16912	29542	6	8.0E-91	D12234.1	EST_HUMAN	HUM000S381 Liver HepG2 cell line. Homo sapiens cDNA clone s381 3'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1427	14174	28859	1.06	7.0E-91	AF053788.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
8205	20899	34036	1.8	7.0E-91	11419234	NT	Homo sapiens makotin, ring finger protein, 1 (MKRN1), mRNA
10198	22846	36062	0.68	7.0E-91	AB04151.1	EST_HUMAN	GM-BT043-090289-075 BT043 Homo sapiens cDNA
3467	16223	28877	1.93	5.0E-91	AA702794.1	EST_HUMAN	zibob04.s1 Soares fetal liver spleen_TNFS S1 Homo sapiens cDNA clone IMAGE:448015 3'
4480	17215	29840	11.73	5.0E-91	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
4480	17215	29841	11.73	5.0E-91	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
4757	17489	30116	0.97	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
4757	17489	30117	0.97	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
6519	19285	32289	1.25	5.0E-91	AB78995.1	EST_HUMAN	au49f09.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518121 3' similar to SW:ASPG_FLAME Q47898 N4-(BETA-N-ACETYL-GLUCOSAMINYL)-L-ASPARAGINASE PRECURSOR ;
8105	20799	33931	1.2	5.0E-91	BF314682.1	EST_HUMAN	601901624F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130933 5'
8658	21350	34495	1.52	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLCBYF08 3'
8658	21350	34496	1.52	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLCBYF08 3'
12612	24919		1.74	5.0E-91	AI193566.1	EST_HUMAN	iqe70f11.x1 Soares fetal_jung_NbHL19W Homo sapiens cDNA clone IMAGE:1744365 3' similar to contains MIR.b2 MIR MIR repetitive element ;
3197	15960	28611	1.69	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3197	15960	28612	1.69	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
10948	23530	36775	4.49	4.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
12094	24596	31082	1.96	4.0E-91	MT7994.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #936205) Homo sapiens cDNA clone HHCMC60 similar to Retrovirus-related gag polyprotein
12094	24596	31127	1.96	4.0E-91	MT7994.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #936205) Homo sapiens cDNA clone HHCMC60 similar to Retrovirus-related gag polyprotein
1913	14360	27049	3.07	3.0E-91	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
1913	14360	27050	3.07	3.0E-91	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
3334	16094	28746	1.62	3.0E-91	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
3455	16211	28863	3.39	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3455	16211	28864	3.39	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3768	16520	29159	1.45	3.0E-91	AF084530.1	NT	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cds
4551	17286	28915	3.79	3.0E-91	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
5600	18395	31305	1.27	3.0E-91	11434864	NT	Homo sapiens epididymal secretory protein (19.5KD) (HE1), mRNA
6212	18887		2.48	3.0E-91	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6), mRNA
6488	19255	32256	5.82	3.0E-91	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6488	19255	32257	5.82	3.0E-91	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
7638	20208	33306	4.97	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
7638	20208	33307	4.97	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
8669	21361	34508	2.58	3.0E-91	D16494.1	NT	Human mRNA for very low density lipoprotein receptor, complete cds
8188	21859	35023	2.83	3.0E-91	AB011166.1	NT	Homo sapiens mRNA for KIAA0564 protein, partial cds
10803	23486	36723	1.41	3.0E-91	AB032179.2	NT	Homo sapiens EHM2 mRNA, complete cds
11160	23827	37105	1.66	3.0E-91	AB029003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
11160	23827	37106	1.68	3.0E-91	AB029003.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12335	24749	31067	2	3.0E-91	AF240786.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
12667	17898	30469	4.35	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
12667	17898	30490	4.35	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
47	12876	25501	5.06	1.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1223	13973	26645	6.31	1.0E-91	AW449746.1	EST_HUMAN	UI-H-BIG-aks-Q-01-0-U1.NC1 CGAP_Sub55 Homo sapiens cDNA clone IMAGE:2735280 3'
5328	18131	30780	0.97	1.0E-91	11434402	NT	Homo sapiens hypothetical protein PRO1855 (PRO1855), mRNA
6743	19577	32610	2.26	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157804 5'
6743	19577	32611	2.26	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157804 5'
12245	26340		1.38	1.0E-91	H16212.1	EST_HUMAN	ym30603.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:49587 5'
1219	13970	26639	9.06	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
1219	13970	26640	9.06	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
5120	17838	30454	0.9	9.0E-92	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
5376	18176	30867	4.86	9.0E-92	J03007.1	NT	Human Na <sup>+</sup> K <sup>+</sup> ATPase alpha-subunit mRNA, partial cds
5518	18316	31217	2.83	9.0E-92	11427149	NT	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA
6362	19132	32127	4.03	9.0E-92	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
7756	20452	33579	7.17	9.0E-92	AJ250566.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
7756	20452	33577	7.17	9.0E-92	AJ250566.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8272	20966	34107	0.92	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8272	20966	34108	0.92	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9174	21844	35010	1.95	9.0E-92	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
11161	23828		1.95	9.0E-92	7706986	NT	Homo sapiens RNBE (RNBE), mRNA
91	12917	25584	2.25	8.0E-92	W28367.1	EST_HUMAN	2883 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
279	13096	25728	3.29	8.0E-92	BE386363.1	EST_HUMAN	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614667 5'



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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5041	17760	30374	0.96	8.0E-92	AW157571.1	EST_HUMAN	au83h08.X1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
5308	18113	30771	0.65	8.0E-92	AB046820.1	NT	TR:O60302 O60302 KIAA0555 PROTEIN. ;contains element MER22 repetitive element ;
							Homo sapiens mRNA for KIAA1600 protein, partial cds
5411	18210	30918	0.97	8.0E-92	AF264717.1	NT	Homo sapiens FIVE domain-containing dual specificity protein phosphatase FIVE-DSP2 mRNA, complete cds
6451	19219	32217	1.31	8.0E-92	AJ000979.1	NT	Homo sapiens MCP-4 gene
6455	19223	32222	0.92	8.0E-92	AF179428.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds
7990	20685		0.55	8.0E-92	11416961	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8324	21017	34152	3.91	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8324	21017	34153	3.91	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8422	21115	34253	0.58	8.0E-92	11426569	NT	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA
8960	21651	34801	2.82	8.0E-92	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
9925	22573	35771	1.18	8.0E-92	Y13829.1	NT	Homo sapiens mRNA for MBNL protein
10707	23397	36636	3.2	8.0E-92	AF074393.1	NT	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
11333	24024	37329	1.61	8.0E-92	4503340	NT	Homo sapiens dihydropyrimidinase S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST) mRNA
23	12851	25456	1.62	7.0E-92	AB031007.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
64	12892	25525	1.01	7.0E-92	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
230	15538	25680	0.87	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
230	15538	25681	0.87	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
577	13357		1.34	7.0E-92	AF007822.1	NT	Homo sapiens cytoplasmic Seprase truncated isoform mRNA, complete cds
1257	14006	26675	1.99	7.0E-92	4502384	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2184	14913	27645	2.27	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2184	14913	27646	2.27	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2568	15282	28020	1.46	7.0E-92	AF167706.1	NT	Homo sapiens cysine-rich repeat-containing protein S52 precursor, mRNA, complete cds
2728	15435	28171	2.2	7.0E-92	6005738	NT	Homo sapiens NRAS-related gene (D1S155E), mRNA
2757	15462	28205	1.23	7.0E-92	AB031007.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
3340	17877	28750	1.08	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
3340	17877	28751	1.06	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4547	17282	29912	2.59	7.0E-92	S71824.1	NT	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2990 nt]
4547	17282	29913	2.59	7.0E-92	S71824.1	NT	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2990 nt]

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4844	17671	30280	0.98	7.0E-92	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5180	17989	30504	8.05	7.0E-92	AA446206.1	EST_HUMAN	z668412.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781175 5'
1582	14328		1.29	5.0E-92	BE390882.1	EST_HUMAN	601283012F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805018 5'
2768	15473	28215	1.8	3.0E-92	BE009714.1	EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3802839 5'
5785	18577	31506	2.6	3.0E-92	AA378336.1	EST_HUMAN	EST91020 Synovial sarcoma Homo sapiens cDNA 5' end similar to ribosomal protein S13
10664	23355	36594	2.72	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
10664	23355	36595	2.72	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
24	12852	25487	1.68	2.0E-92	4501898	NT	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA
174	12886	25628	3.57	2.0E-92	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (dJ462023.2), mRNA
174	12886	25628	3.57	2.0E-92	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (dJ462023.2), mRNA
732	13506	28162	1.33	2.0E-92	BE289190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
732	13506	28163	1.33	2.0E-92	BE289190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1709	14452		2.22	2.0E-92	S78653.1	NT	mitg=mas-related [human, Genomic, 2416 nt]
1929	14665	27378	2.36	2.0E-92	A1818119.1	EST_HUMAN	wk27407.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
1929	14665	27379	2.36	2.0E-92	A1818119.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
2041	14776	27504	5.58	2.0E-92	4508860	NT	wk27407.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
2864	15374	28113	19.2	2.0E-92	6912457	NT	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
3600	16353	28992	2.61	2.0E-92	AF231819.1	NT	Homo sapiens syndecan 4 (amphiglycan, ryudocan) (SDC4) mRNA
3600	16353	28993	2.61	2.0E-92	AF231819.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
3674	16427	29068	5.57	2.0E-92	5803180	NT	Homo sapiens chromosome 21 unknown mRNA
4256	16897	29628	1.23	2.0E-92	M10976.1	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA
4936	17684		2.51	2.0E-92	AL040437.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
5673	18488	31383	0.64	2.0E-92	AF016535.1	NT	DKFZp434C0414_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434C0414 5'
6209	18984		0.8	2.0E-92	4504756	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6517	19282	32285	3.03	2.0E-92	AB028991.1	NT	Homo sapiens integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL) mRNA
7364	20045		0.61	2.0E-92	U67780.1	NT	Homo sapiens mRNA for KIAA1068 protein, partial cds
7387	20045		0.78	2.0E-92	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
8754	21446	34594	1.89	2.0E-92	AW340174.1	EST_HUMAN	Human NPY Y1-like receptor pseudogene mRNA, complete cds
10659	23350	36587	4.83	2.0E-92	11434900	NT	h02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:O02711
							O02711 PRO-POL-DUTPASE POLYPROTEIN ;
							Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10930	23610	38859	1.48	2.0E-92	11434759	NT	Homo sapiens zinc finger protein 198 (ZNF198), mRNA
10978	23653	36906	2.54	2.0E-92	5803103	NT	Homo sapiens male-specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA
12439	24809	31046	2.69	2.0E-92	AB020016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12697	15374	28113	2.51	2.0E-92	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0390), mRNA
1842	14580	27294	1.13	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
1842	14580	27295	1.13	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
2066	14798	27525	8.83	1.0E-92	4506668	NT	Homo sapiens ribosomal protein, large, P1 (RPLP1) mRNA
8145	20839	33971	1.29	1.0E-92	BE439625.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
							Ig01b02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN
9062	21751	34910	3.82	1.0E-92	AJ380356.1	EST_HUMAN	Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ; contains Alu repetitive element; contains element MER17 repetitive element ;
9062	21751	34911	3.82	1.0E-92	AJ380356.1	EST_HUMAN	Ig01b02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN
2023	14758	27487	3	9.0E-93	AU121681.1	EST_HUMAN	Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ; contains Alu repetitive element; contains element MER17 repetitive element ;
							AU121681 MAMMA1 Homo sapiens cDNA clone MAMMA1000738 5'
2035	14770		5.48	9.0E-93	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) H Homo sapiens cDNA 5' end similar to ribosomal protein L29
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
2653	15363		1.45	9.0E-93	AF223391.1	NT	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832 5'
3802	16355	28995	1.11	9.0E-93	BE388571.1	EST_HUMAN	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
11645	24242		9.71	9.0E-93	11418526	NT	UI-H-B10-aah-h-06-0-UI.st NCI_CGAP_SubT Homo sapiens cDNA clone IMAGE:2709371 3'
6351	19121	32112	0.58	8.0E-93	AW014042.1	EST_HUMAN	UI-H-B10-aah-h-06-0-UI.st NCI_CGAP_SubT Homo sapiens cDNA clone IMAGE:2709371 3'
6351	19121	32113	0.58	8.0E-93	AW014042.1	EST_HUMAN	UI-H-B10-aah-h-06-0-UI.st NCI_CGAP_SubT Homo sapiens cDNA clone IMAGE:2709371 3'
6496	19262	32263	2.51	8.0E-93	BF036364.1	EST_HUMAN	601490521F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863908 5'
239	13048	25687	9.92	7.0E-93	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3073	15839	28482	0.94	6.0E-93	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
6581	19344	32358	1.02	6.0E-93	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6817	19478	32501	1.12	6.0E-93	AF095771.1	NT	Homo sapiens PTH-responsive osteocalcin B1 protein (B1) mRNA, complete cds
1359	14107	26782	3.51	5.0E-93	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
1386	14133	26807	7.28	5.0E-93	AI674184.1	EST_HUMAN	wc09c08.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2314670 3'
1386	14133	26808	7.28	5.0E-93	AI674184.1	EST_HUMAN	wc09c08.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2314670 3'
3227	15990	28643	2.98	5.0E-93	X04201.1	NT	Human skeletal muscle 1.3 kb mRNA for tropomyosin
5710	19503	31425	1.01	5.0E-93	M22878.1	NT	Human somatic cytochrome c (HC1) processed pseudogene, complete cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6018	18799		1.02	5.0E-93	AF045555.1	NT	Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
7614	20290	33388	3.6	5.0E-93	AF067136.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
8503	21195	34338	1	5.0E-93	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8503	21195	34339	1	5.0E-93	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
9523	22176	35360	2.16	5.0E-93	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9707	22358	35554	1.25	5.0E-93	5032156	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
9970	22618	35821	1.9	5.0E-93	AF069313.2	NT	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds
10727	23415	36656	2.25	5.0E-93	11439598	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12343	25052	30959	2.15	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
12805	25052	30959	1.44	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
86	12912		6.52	4.0E-93	AA459833.1	EST_HUMAN	z60e09.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:795688 3' similar to SW:CLPA_RAT
432	13218	25863	1.39	4.0E-93	4557879	NT	P37397 CALPONIN, ACIDIC ISOFORM
432	13218	25864	1.39	4.0E-93	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
756	13527	26186	1.67	4.0E-93	7657454	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
756	13527	26187	1.67	4.0E-93	7657454	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
1160	13914	26577	1.53	4.0E-93	8923658	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
1970	14706	27424	4.3	4.0E-93	AF047677.1	NT	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA
2241	14969	27707	0.98	4.0E-93	AF157476.1	NT	Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in intron 5
2387	15118	27855	1.85	4.0E-93	AL163301.2	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
3553	16308	28958	0.73	4.0E-93	7705396	NT	Homo sapiens chromosome 21 segment HS21C101
4028	18771	29403	1.67	4.0E-93	4504854	NT	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
							Homo sapiens interleukin 18 receptor 1 (IL18R1) mRNA
5557	18354	31264	4.9	4.0E-93	T46864.1	EST_HUMAN	y694c12.1 Stratagene liver (#837224) Homo sapiens cDNA clone IMAGE:78638 5' similar to similar to SP:A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN
11078	23748	37023	6.17	4.0E-93	AV692051.1	EST_HUMAN	AV682051 GKCC Homo sapiens cDNA clone GKCDRF07 5'
3643	16396	28035	7.35	3.0E-93	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
3643	16396	28036	7.35	3.0E-93	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
4210	16951		1.31	3.0E-93	AF225896.1	NT	Homo sapiens tensin mRNA, complete cds
5697	18491	31412	0.79	3.0E-93	AI553853.1	EST_HUMAN	h28g03.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2168076 3'
5697	18491	31413	0.79	3.0E-93	AI553853.1	EST_HUMAN	h28g03.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2168076 3'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6468	19235	32236	1.21	3.0E-93	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
10703	23394	36631	4.27	3.0E-93	AB24829.1	EST_HUMAN	w602d05.x1 NCL_CGAP GC6 Homo sapiens cDNA clone IMAGE:2304489 3'
185	12998	25637	7.51	2.0E-93	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
185	12998	25638	7.51	2.0E-93	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
315	13119	25758	9.36	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
316	13119	25758	9.48	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1610	14357	27046	1.33	2.0E-93	AF225896.1	NT	Homo sapiens tensin mRNA, complete cds
2126	14857	27587	1.33	2.0E-93	U40763.1	NT	Human Cdk-associated RS cyclophilin CARS-Cyp mRNA, complete cds
2490	15207	27949	1.66	2.0E-93	BE252982.1	EST_HUMAN	601117586F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:33582220 5'
5332	18135	30794	5.42	2.0E-93	AW964385.1	EST_HUMAN	EST376458 IMAGE resequences, MAGH Homo sapiens cDNA
5342	18145	30824	0.66	2.0E-93	4758153	NT	Homo sapiens deafness, autosomal dominant 5 (DFNA5), mRNA
5455	18254		1.04	2.0E-93	BF361456.1	EST_HUMAN	QV3-HT0513-290300-126-h04 HT0513 Homo sapiens cDNA
5550	18347	31256	1.13	2.0E-93	11430036	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
5565	18362	31270	0.65	2.0E-93	U74313.1	EST_HUMAN	HSU74313 Human chromosome 14 Homo sapiens cDNA clone 1-86
6584	19347		1.1	2.0E-93	AW502002.1	EST_HUMAN	U1HF-BND-aks-g-09-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078328 5'
11014	23686	36946	1.27	2.0E-93	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
11014	23686	36947	1.27	2.0E-93	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
12233	24686		2.64	2.0E-93	AA126735.1	EST_HUMAN	Z126c10.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503346 3'
12314	24736		2.17	2.0E-93	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
12571	24899		10.79	2.0E-93	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
101	12927	25564	2.29	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
101	12927	25565	2.29	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
505	13289	25923	4.25	1.0E-93	7657016	NT	Homo sapiens hypothetical protein (DJ328E19.C1.1), mRNA
586	13366	25994	4.57	1.0E-93	AI146755.1	EST_HUMAN	oy84b08.x1 NCL_CGAP_OLL1 Homo sapiens cDNA clone IMAGE:1672503 3' similar to TR:Q62384 Q62384
852	13622	26292	8.91	1.0E-93	D87675.1	NT	ZINC FINGER PROTEIN.
1144	13899	26660	2.9	1.0E-93	4503872	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1215	13965	26632	7.65	1.0E-93	8923270	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD67, mRNA
1215	13965	26633	7.65	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1322	14071	26744	1.5	1.0E-93	AB046783.1	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1324	14073	26746	0.99	1.0E-93	AF167706.1	NT	Homo sapiens mRNA for KIAA1563 protein, partial cds
2337	15061	27798	1.33	1.0E-93	AF231981.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
							Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds

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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2466	15184	27824	1.7	1.0E-93	AF05086.1	NT	Homo sapiens MHC class 1 region
2511	15228		0.98	1.0E-93	AL137200.1	NT	Novel human gene mapping to chromosome 1
2825	14022	26689	1.47	1.0E-93	BE297369.1	EST_HUMAN	601177886F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2825	14022	26690	1.47	1.0E-93	BE297369.1	EST_HUMAN	601177886F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2934	15700	28348	7.48	1.0E-93	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
3210	16973		1.27	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
4395	17132	29763	2.6	1.0E-93	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5479	18278	31173	2.38	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5479	18278	31174	2.38	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5678	18472	31389	0.96	1.0E-93	AF227138.1	NT	Homo sapiens candidate taste receptor T2R14 gene, complete cds
5825	18614	31646	10.32	1.0E-93	4557792	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) mRNA
6104	18882	31850	1.4	1.0E-93	7682241	NT	Homo sapiens KIAA0872 gene product (KIAA0872), mRNA
6694	19611	32650	2.01	1.0E-93	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7150	19837	32907	3.49	1.0E-93	D42072.1	NT	Human mRNA for NF1 N-terminus-exon11, complete cds
8158	20882	33984	2.54	1.0E-93	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
8441	21133	34269	1.2	1.0E-93	Y10183.1	NT	H. sapiens mRNA for MEMD protein
8547	21239	34382	1.38	1.0E-93	AF182032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds
9352	20423	33542	1.79	1.0E-93	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
9356	20427	33546	1.26	1.0E-93	AF091395.1	NT	Homo sapiens Trf isoform mRNA, complete cds
9488	22141	35319	8.29	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9488	22141	35320	8.29	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9626	22278	35467	0.79	1.0E-93	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10045	22693	35910	0.62	1.0E-93	11493846	NT	Homo sapiens ryanodine receptor 3 (RYR3), mRNA
12487	24846		1.84	1.0E-93	AJ230125.1	NT	Homo sapiens GGT1 gene, exon 1
12566	24896		2.64	1.0E-93	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12739	25391		1.49	1.0E-93	AF240786.1	NT	Homo sapiens chromosome 21 segment HS21C009
10492	23138		1.03	8.0E-94	AL163209.2	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
3944	16594	29333	1.63	6.0E-94	AF142482.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5283	18088	30747	4.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5283	18088	30748	4.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5957	18739	31698	4.22	5.0E-94	AA722434.1	EST_HUMAN	zg87g06.s1 Soares_Totol_Nb1H19W Homo sapiens cDNA clone IMAGE:409584 3'

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6910	19648	32693	1.29	5.0E-94	AI015800.1	EST_HUMAN	cd83d05.s1 Soares_tetal_fetus_Nb21F8_9w Homo sapiens cDNA clone IMAGE:1623369 3'
8537	21229	34371	1.11	5.0E-94	BF529115.1	EST_HUMAN	602042163F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4180023 5'
12209	25394	30619	9.98	5.0E-94	788398.1	EST_HUMAN	y88b04.s1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:116239 3'
12766	25017		1.5	5.0E-94	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
12761	25021		1.86	5.0E-94	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
1834	14573		2.64	4.0E-94	L05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2882	19372	28111	0.92	4.0E-94	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3661	16414	29053	1.38	4.0E-94	AW197851.1	EST_HUMAN	xr89f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
3881	16414	29054	1.38	4.0E-94	AW197851.1	EST_HUMAN	xr89f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
4889	17403	30038	2.87	4.0E-94	AI591312.1	EST_HUMAN	tw11f10.x1 NCI_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2259403 3' similar to TR:Q15285 Q15285 PROTEIN TYROSINE PHOSPHATASE ;
6376	19145	32143	1.82	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6376	19145	32144	1.82	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6812	19473		1.18	4.0E-94	L27398.1	NT	Homo sapiens huntingtin (HD) gene, exon 37
11431	23198	38429	1.5	4.0E-94	11545782	NT	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA
597	13375	26005	1.44	3.0E-94	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
704	13479	26127	0.88	3.0E-94	4502508	NT	Homo sapiens complement component 5 (C5) mRNA
1733	14475	27173	1.19	3.0E-94	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1733	14475	27174	1.19	3.0E-94	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1765	14507	27208	2.61	3.0E-94	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2073	14805	27534	1.27	3.0E-94	11427779	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
2073	14805	27535	1.27	3.0E-94	11427779	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
4166	18906	29534	0.83	3.0E-94	AA464805.1	EST_HUMAN	zw63g08.r1 Soares_tetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:774782 5'
5598	18390	31301	3.41	3.0E-94	11498288	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6059	18639	31800	1.33	3.0E-94	AB011536.1	NT	Homo sapiens mRNA for MEGF2, partial cds
6360	19130	32125	4	3.0E-94	11526228	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
7696	20359	33473	1.7	3.0E-94	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
8098	20792	33923	1.18	3.0E-94	AF152309.1	NT	Homo sapiens protocadherin alpha 13 (PCDH-alpha13) mRNA, complete cds
8486	21178	34322	4.35	3.0E-94	AB014579.1	NT	Homo sapiens mRNA for KIAA0679 protein, partial cds
9492	22145	36328	5.23	3.0E-94	AF087942.1	NT	Homo sapiens glycogenin-1L mRNA, complete cds
11043	23713	36983	3.26	3.0E-94	4757821	NT	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
11678	24274	37696	1.94	3.0E-94	U26711.1	NT	Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9653	22305	35501	0.7	2.0E-94	A1910393.1	EST_HUMAN	wi30h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
9653	22305	35502	0.7	2.0E-94	A1910393.1	EST_HUMAN	wi30h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
144	12959	25601	1.94	1.0E-94	BE285714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3086	15851	28492	2.07	1.0E-94	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
3086	15851	28493	2.07	1.0E-94	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
4328	17085	29684	1.7	1.0E-94	9506692	NT	Homo sapiens hypothetical protein (FLJ20746), mRNA
5982	18763	31727	0.64	1.0E-94	AE000269.1	NT	E scherichia coli K-12 MG1655 section 159 of 400 of the complete genome
6173	18950	31922	0.73	1.0E-94	AL040518.1	EST_HUMAN	DKFZp434G0314_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G0314 5'
6182	18959	31933	0.72	1.0E-94	AL08270.1	EST_HUMAN	y8702.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:45053 5'
6426	19194	32190	0.58	1.0E-94	AV725992.1	EST_HUMAN	AV725992 HTC Homo sapiens cDNA clone H7CBEF05 5'
8012	20707	33836	0.63	1.0E-94	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8012	20707	33837	0.63	1.0E-94	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9155	21886	35054	2.76	1.0E-94	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
9687	22339	35533	2.04	1.0E-94	BE780478.1	EST_HUMAN	601468748F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872099 5'
11000	23673	36929	3.08	1.0E-94	U65590.1	NT	Homo sapiens IL-1 receptor antagonist IL-1Ra (IL-1RN) gene, alternatively spliced forms, complete cds
11288	23949	37245	2.82	1.0E-94	A1272244.1	EST_HUMAN	ap22e02.x1 Schiller oligodendrogloma Homo sapiens cDNA clone IMAGE:1986122 3' similar to TR:Q62845
11754	24345	37875	1.72	1.0E-94	11418871	NT	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR. ;
12330	12959	25601	1.45	1.0E-94	BE295714.1	EST_HUMAN	Homo sapiens KIAA0164 gene product (KIAA0164), mRNA
12608	12959	25601	1.51	1.0E-94	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
1459	14208	26892	1.93	9.0E-95	AF027302.1	NT	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3153	15916	28561	1.45	9.0E-95	7662027	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3153	15916	28562	1.45	9.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5320	18123	30781	1.33	9.0E-95	X82569.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5320	18123	30782	1.33	9.0E-95	X82569.1	NT	M.musculus glyt1 gene (exons 1c and 2)
8150	20844	33974	1.77	9.0E-95	AF214753.1	NT	M.musculus glyt1 gene (exons 1c and 2)
4499	17235	29866	3.18	8.0E-95	A1700998.1	EST_HUMAN	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
4499	17235	29867	3.18	8.0E-95	A1700998.1	EST_HUMAN	we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
6849	19549	32579	0.76	8.0E-95	11419376	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
7141	19828	32897	1.76	8.0E-95	11426529	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
7141	19828	32898	1.76	8.0E-95	11426529	NT	we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
							Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
							Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA



Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8097	20791	33922	1.97	8.0E-95	AF032807.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
9265	22019	35187	2	8.0E-95	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9265	22019	35188	2	8.0E-95	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9748	22399	35604	3.1	8.0E-95	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9779	22430		2.94	8.0E-95	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
10135	22783	35904	0.8	8.0E-95	9845523	NT	Homo sapiens early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA
10813	23307	36546	1.3	8.0E-95	AF112152.1	NT	Homo sapiens developmental arteries and neural crest EGF-like protein mRNA, complete cds
11468	24069	37377	1.86	8.0E-95	10864024	NT	Homo sapiens HCF-binding transcription factor Zhangfai (ZF), mRNA
12535	24879		12.4	8.0E-95	AA629058.1	EST_HUMAN	zu84b01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:744949 3' similar to contains L1.t1 L1
269	13077	25718	32.81	7.0E-95	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
269	13077	25719	32.81	7.0E-95	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4333	17072	29701	5.18	7.0E-95	M95708.1	NT	Homo sapiens Ly-6-like protein (CD59) mRNA, complete cds
4380	17117		1.3	7.0E-95	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9117	21805	34971	1.31	4.0E-95	BE439626.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
5356	18159	30842	1.98	3.0E-95	BF526041.1	EST_HUMAN	602071146F1 NCL CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4214147 5'
5688	25071	31294	0.83	3.0E-95	4503354	NT	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7268	19952	33027	1.51	3.0E-95	AW958121.1	EST_HUMAN	EST370191 IMAGE resequences, MAGE Homo sapiens cDNA
7268	19952	33028	1.51	3.0E-95	AW958121.1	EST_HUMAN	EST370191 IMAGE resequences, MAGE Homo sapiens cDNA
8278	20972	34113	0.55	3.0E-95	AW157233.1	EST_HUMAN	au93b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to
8278	20972	34114	0.55	3.0E-95	AW157233.1	EST_HUMAN	TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1];
9255	21934	35107	1.89	3.0E-95	7662289	NT	au93b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to
9255	21934	35108	1.89	3.0E-95	7662289	NT	TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1];
9847	22299	35495	0.73	3.0E-95	BF213446.1	EST_HUMAN	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10792	23475	38716	1.49	3.0E-95	R83190.1	EST_HUMAN	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
1839	14385	27072	2.31	2.0E-95	7662027	NT	yp87g11.r1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:4070451 5'
1839	14385	27073	2.31	2.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1834	14669	27384	2.51	2.0E-95	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3), mRNA
1837	14672	27388	1.92	2.0E-95	BE393873.1	EST_HUMAN	801312161F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658862 5'
2426	15147	27880	2.22	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2426	15147	27881	2.22	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2488	15186	27925	3.28	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2517	15233	27973	1.85	2.0E-95	4758423	NT	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA
3155	15918	28564	1.96	2.0E-95	AF015452.1	NT	Homo sapiens Ursin-gamma mRNA, complete cds
3562	16307	28956	3.07	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3562	16307	28957	3.07	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3605	16358	28998	1.29	2.0E-95	AB037807.1	NT	Homo sapiens mRNA for KIAA1386 protein, partial cds
3732	16485	29122	0.88	2.0E-95	AI290264.1	EST_HUMAN	qim01c02.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1880546 3' similar to WP:T23G7.4 CE03705
4328	17087	29695	1.32	2.0E-95	7657185	NT	Homo sapiens hypothetical protein (HS322B1A), mRNA
4978	17701	30308	2.72	2.0E-95	7681979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5392	18192	30884	4.21	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC61086), mRNA
5392	18192	30885	4.21	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC61086), mRNA
5611	18407	31319	1.27	2.0E-95	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5611	18407	31320	1.27	2.0E-95	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5651	18446	31360	0.7	2.0E-95	11525883	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
6051	18831	31794	5.04	2.0E-95	M59724.1	NT	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7
6358	19128	32122	1.16	2.0E-95	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6358	19128	32123	1.16	2.0E-95	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6476	19243	32243	2.45	2.0E-95	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6666	19583	32617	1.82	2.0E-95	11436773	NT	Homo sapiens huntingtin (Huntington disease) (HD), mRNA
9041	21731	34886	1.08	2.0E-95	11421795	NT	Homo sapiens ribophorin II (RPN2), mRNA
10280	22928	36142	0.84	2.0E-95	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
10624	23317	36557	2.46	2.0E-95	4757853	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRI1A) mRNA
11700	24295	37620	3.02	2.0E-95	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11700	24295	37621	3.02	2.0E-95	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12299	24724	31055	2.3	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12698	24980	30994	4.66	2.0E-95	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
5527	18325	31226	8.41	1.0E-95	AA284651.1	EST_HUMAN	z23h04.r1 Soares ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F55H2.6
5527	18325	31227	8.41	1.0E-95	AA284651.1	EST_HUMAN	z23h04.r1 Soares ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F55H2.6

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7414	20091	33175	4.3	1.0E-95	BF370000.1	EST_HUMAN	RC8-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
7414	20091	33176	4.3	1.0E-95	BF370000.1	EST_HUMAN	RC8-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
8094	20788	33920	1.49	9.0E-96	BE987259.1	EST_HUMAN	801437232F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3922423 5'
5424	18223		2.77	8.0E-96	AW836047.1	EST_HUMAN	PM0-L T0019-090300-002-009 LT0019 Homo sapiens cDNA
3859	16639	28278	0.74	7.0E-96	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
3476	16232	28886	20.13	6.0E-96	M26873.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3'end
5552	18349	31258	0.74	6.0E-96		NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminidase alpha 2,3-sialyltransferase) (SIAT6), mRNA
11534	24134	37439	3.36	6.0E-96		NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11534	24134	37440	3.36	6.0E-96		NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11584	24183	37498	2.05	6.0E-96	9923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11769	24360	37692	1.83	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11769	24360	37693	1.83	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
312	13116	25754	2.74	5.0E-96	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
822	13592	26260	4.08	5.0E-96	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
2624	15338	26261	4.08	5.0E-96	AB032998.1	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
4846	17576		1.43	5.0E-96	11418767	NT	H sapiens DNA for monamine oxidase type A (7) (partial)
6553	19318	32324	1.39	5.0E-96	X60812.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6884	19601	32639	1.15	5.0E-96	AF149773.1	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6884	19601	32640	5.18	5.0E-96	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6923	19659	32706	0.71	5.0E-96	11424399	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7416	20992	33177	1.98	5.0E-96	AB024334.1	NT	Homo sapiens mRNA for 14-3-3gamma, complete cds
8005	20700	33828	1.35	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
8005	20700	33829	1.35	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
11793	24383	37715	1.4	5.0E-96	7661973	NT	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA
4768	16908		12.32	3.0E-96	H68658.1	EST_HUMAN	y87h12.1 Soares fetal liver spleen tNFLS Homo sapiens cDNA clone IMAGE:212327 5'
406	13191		4.24	2.0E-96	4503098	NT	Homo sapiens chondroin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
730	13504	26159	0.91	2.0E-96	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
4708	17440	30072	1.89	2.0E-96	BE148074.1	EST_HUMAN	RC3-HT0230-040500-110-g02 HT0230 Homo sapiens cDNA
7361	20042	33120	0.62	2.0E-96	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
7361	20042	33121	0.62	2.0E-96	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
8879	21570		5.83	2.0E-96	AV689481.1	EST_HUMAN	AV689481 GK Homo sapiens cDNA clone GKCFMD07 5'
12009	24543		2.81	2.0E-96	AW249440.1	EST_HUMAN	2819351.5prime NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2819351 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
608	13388	26016	2.6	1.0E-96	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
608	13388	26017	2.6	1.0E-96	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
666	13433	26074	3.38	1.0E-96	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1774	14516	27210	2.66	1.0E-96	AW955054.1	EST_HUMAN	EST367124 MAGE resequences, MAGEC Homo sapiens cDNA
1774	14516	27217	2.56	1.0E-96	AW955054.1	EST_HUMAN	EST367124 MAGE resequences, MAGEC Homo sapiens cDNA
2262	15527	27229	1.06	1.0E-96	U51472.2	NT	Felis catus superfast myosin heavy chain (smMyHC) mRNA, complete cds
8869	17948	30541	1.3	1.0E-96	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6949	19431	32447	0.87	1.0E-96	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8111	20805	33938	1.24	1.0E-96	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8111	20805	33939	1.24	1.0E-96	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8816	21308	34450	20.66	1.0E-96	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
8749	21441	34588	2.09	1.0E-96	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10059	22707	35924	1.24	1.0E-96	AB033110.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
10059	22707	35925	1.24	1.0E-96	AB033110.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
11999	13386	26016	1.97	1.0E-96	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
11999	13386	26017	1.97	1.0E-96	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
7457	20131		2.6	6.0E-97	BE141849.1	EST_HUMAN	IL5-HT0117-011099-004-D07 HT0117 Homo sapiens cDNA
8832	21524	34670	0.69	6.0E-97	BE898012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
8832	21524	34671	0.69	6.0E-97	BE898012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
10497	23143	36369	0.57	6.0E-97	AA320332.1	EST_HUMAN	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end
10497	23143	36370	0.57	6.0E-97	AA320332.1	EST_HUMAN	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end
11382	23989	37290	1.46	6.0E-97	X15804.1	NT	Human mRNA for alpha-actinin
7913	20608	33739	1.91	5.0E-97	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hts3) Homo sapiens cDNA clone DKFZp434N0323 5'
8042	20736	33989	11.73	6.0E-97	AA418026.1	EST_HUMAN	z07e12.e1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:767758 3' similar to TR:G1304125
9574	22227	35412	2.66	5.0E-97	BF154912.1	EST_HUMAN	G1304125 PMS4 MRNA ;
11535	24135	37441	1.98	5.0E-97	BE148597.1	EST_HUMAN	MRO-HT0241-150500-010-502 HT0241 Homo sapiens cDNA
11535	24135	37442	1.98	5.0E-97	BE148597.1	EST_HUMAN	MRO-HT0241-150500-010-502 HT0241 Homo sapiens cDNA
918	13865	26349	1.59	4.0E-97	BE004436.1	EST_HUMAN	CMO-BN0106-170300-283-a06 BN0106 Homo sapiens cDNA
928	13895	26359	1.04	4.0E-97	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
928	13895	26360	1.04	4.0E-97	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
1903	14640	27349	1.07	4.0E-97	5453572	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5478	18277	31172	0.61	4.0E-97	4557326	NT	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA
5765	18558	31482	0.95	4.0E-97	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNR2A) mRNA; complete cds
5765	18558	31483	0.95	4.0E-97	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNR2A) mRNA; complete cds
6725	19559	32590	6.47	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 8-sialyltransferase 1, long form
6725	19559	32591	6.47	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 8-sialyltransferase 1, long form
6921	19657	32703	1	4.0E-97	7710125	NT	Homo sapiens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA
6968	19450	32488	1.05	4.0E-97	11422155	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8036	20731	33863	0.57	4.0E-97	4557708	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2) mRNA
8256	20950	34087	2.63	4.0E-97	11421793	NT	Homo sapiens v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
8518	21210	34363	0.75	4.0E-97	11423233	NT	Homo sapiens cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA
9147	21878	35043	1.23	4.0E-97	AB011166.1	NT	Homo sapiens mRNA for KIAA0694 protein, partial cds
9147	21878	35044	1.23	4.0E-97	AB011166.1	NT	Homo sapiens mRNA for KIAA0694 protein, partial cds
11116	23786	37062	1.88	4.0E-97	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11116	23786	37063	1.88	4.0E-97	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11412	23179	36407	3.61	4.0E-97	AB042557.1	NT	Homo sapiens mRNA, similar to rat myomegalin, complete cds
11415	23182	36411	1.62	4.0E-97	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
11415	23182	36412	1.62	4.0E-97	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
12180	24652	28657	7.76	4.0E-97	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
236	13046	25685	1.14	3.0E-97	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
854	13824	26294	29.53	3.0E-97	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
854	13624	26295	29.53	3.0E-97	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1422	15569	26855	1.29	3.0E-97	4758813	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
2440	15528	27895	1.68	3.0E-97	U36255.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 7
3254	16016	28657	1.3	3.0E-97	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
4729	17461	30098	12.99	1.0E-97	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
6333	19103	32091	2.48	1.0E-97	BE668486.1	EST_HUMAN	601339520F1 NIH MGC 53 Homo sapiens cDNA clone IMAGE:3681821 5'
9344	20415	33534	1.16	1.0E-97	AW379976.1	EST_HUMAN	RCO-HT0258-211199-011-g03 HT0258 Homo sapiens cDNA
9344	20415	33535	1.16	1.0E-97	AW379976.1	EST_HUMAN	RCO-HT0258-211199-011-g03 HT0258 Homo sapiens cDNA
9664	22316	35513	1.6	1.0E-97	R10887.1	EST_HUMAN	Y38c08.s1 Soares fetal liver spleen 1NF5S Homo sapiens cDNA clone IMAGE:129134 3'
10804	23298	36538	3.44	1.0E-97	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
10804	23298	36539	3.44	1.0E-97	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11280	23041	37235	2.03	1.0E-97	AA553761.1	EST_HUMAN	nk29g02.s1 NCL OGAP_Cot11 Homo sapiens cDNA clone IMAGE:1014862 3'
11445	23212	36443	14.01	1.0E-97	11428272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
11445	23212	36444	14.01	1.0E-97	11428272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
881	13650	26319	3.52	9.0E-98	BE090973.1	EST_HUMAN	PM4-BT0724-010400-008-a12 BT0724 Homo sapiens cDNA
1253	14002	26870	1.12	9.0E-98	8393092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
6210	18995		0.71	9.0E-98	AJ250713.1	NT	Homo sapiens CLDN12 gene for claudin-12
7190	19876	32949	0.67	9.0E-98	7681871	NT	Homo sapiens leucyl-tRNA synthetase, mitochondrial (KIAA0028), mRNA
7286	19999	33046	0.6	9.0E-98	11419408	NT	Homo sapiens A kinase (PRKA) anchor protein (yakao) 9 (AKAP9), mRNA
7826	20520	33848	4.79	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
7826	20520	33847	4.79	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
9014	21704	34854	6.28	9.0E-98	X09989.1	NT	Human mRNA for amyloid A4(751) protein
9124	21812	34977	1.5	9.0E-98	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9192	21862	35027	1.59	9.0E-98	AB037786.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9238	21817		0.96	9.0E-98	AF057726.1	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 3 (SMARCA3) mRNA
9267	22021	35190	1.14	9.0E-98	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
9267	22021	35191	1.14	9.0E-98	4507070	NT	Homo sapiens inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds
10160	22808	36026	0.45	9.0E-98	AF141325.2	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
10926	23606	36856	2.63	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
10926	23606	36857	2.63	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11004	23676	36882	1.39	9.0E-98	11418982	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 7 (MAP3K7), mRNA
11850	24434	37776	1.39	9.0E-98	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11850	24434	37777	1.39	9.0E-98	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
1351	14099	26774	0.92	8.0E-98	AB033768.1	NT	Homo sapiens HPAD-colony10 mRNA for peptidylarginine deiminase type I, complete cds
1719	14482	27161	2.7	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
1719	14482	27162	2.7	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3775	16527	29166	6.89	8.0E-98	J04889.1	NT	Human mitochondrial creatine kinase (CKMT) gene, complete cds
5981	18772	31735	0.99	6.0E-98	BE885673.1	EST_HUMAN	601507503F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909097 5'
2176	14905	27638	1.14	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
2613	15324	28067	0.99	3.0E-98	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
2763	15438		2.9	3.0E-98	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
6847	19547	32576	1.9	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6847	19547	32577	1.9	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8649	21341	34485	2.73	3.0E-98	H46099.1	EST_HUMAN	yo17g09.r1 Soares adult brain N255HB55Y Homo sapiens cDNA clone IMAGE:178240 5'
9197	21866	35030	0.49	3.0E-98	8922096	NT	Homo sapiens uncharacterized bone marrow protein BM039 (BM039), mRNA
9783	22434	35639	1.42	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone i8
9783	22434	35640	1.42	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone i8
10371	23017	36233	0.98	3.0E-98	BE900454.1	EST_HUMAN	601673688F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3955517 5'
10872	23552	36799	4.11	3.0E-98	U59309.1	NT	Human fumarate precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
11863	24447	37788	1.58	3.0E-98	L26405.1	NT	Homo sapiens (huc) mRNA, complete cds
12668	25282		1.47	3.0E-98	BE382519.1	EST_HUMAN	601297955F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628213 5'
12751	25013		3.56	3.0E-98	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
2071	14803	27531	2.68	2.0E-98	BE284281.1	EST_HUMAN	601172658F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5'
2231	14959	27699	1.53	2.0E-98	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21G002
4264	17005	29637	0.8	2.0E-98	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4306	17045	29670	3.21	2.0E-98	4756331	NT	Homo sapiens fatty-acid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA
4778	17508	30129	1.34	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
4778	17508	30130	1.34	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
5131	17849	30468	1.39	2.0E-98	4758975	NT	Homo sapiens protein tyrosine kinase 2 beta (PTK2B) mRNA
5292	18097	30757	4.03	2.0E-98	7708512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6557	19322	32329	1.15	2.0E-98	4505798	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7523	20194	33286	1.07	2.0E-98	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
7523	20194	33287	1.07	2.0E-98	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
8506	21198	34342	4.94	2.0E-98	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8506	21198	34343	4.94	2.0E-98	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8591	21283	34421	0.58	2.0E-98	L76686.1	NT	Homo sapiens NKAT4b mRNA, complete cds
8591	21283	34422	0.58	2.0E-98	L76686.1	NT	Homo sapiens NKAT4b mRNA, complete cds
9437	22115	35290	1.48	2.0E-98	X12864.1	NT	H. sapiens arginase gene exon 3 (EC 3.5.3.1)
10313	22960		1.37	2.0E-98	7708668	NT	Homo sapiens AIM-1 protein (LOC511151), mRNA
11155	23822	37103	1.42	2.0E-98	U22028.1	NT	Human cyclochrome P450 (CYP2A13) gene, complete cds
396	13181	25829	16.4	1.0E-98	A1862007.1	EST_HUMAN	W36604.X1 NC1 CGAP_U1 Homo sapiens cDNA clone IMAGE:2261743 3' similar to SW:RL2B_HUMAN
442	13228	25871	2.12	1.0E-98	AW998611.1	EST_HUMAN	P28316 60S RIBOSOMAL PROTEIN L23A. ;
1789	14529	27237	11.24	1.0E-98	N49818.1	EST_HUMAN	W23105.1 Soares fetal liver spleen 1NF1.S Homo sapiens cDNA clone IMAGE:243585 5' similar to PIR:S64204 S64204 ribosomal protein L29 - human ;

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5234	18040	30688	3.4	1.0E-98	AA195854.1	EST_HUMAN	zp98c09.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628240 5' similar to TR:G806562
5482	18281	31178	1.1	1.0E-98	BE390627.1	EST_HUMAN	G806562 NEBULIN. ;
5482	18281	31179	1.1	1.0E-98	BE390627.1	EST_HUMAN	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:360692 5'
8896	21587	34726	2.7	1.0E-98	AF141349.1	NT	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:360692 5'
8896	21587	34727	2.7	1.0E-98	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
5728	18520	31441	0.88	9.0E-99	AI905004.1	EST_HUMAN	Homo sapiens beta-tubulin mRNA, complete cds
5728	18520	31442	0.88	9.0E-99	AI905004.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
5949	18731	31691	4.21	9.0E-99	AW969635.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
11096	23736	37009	2.75	9.0E-99	AI479829.1	EST_HUMAN	EST380711 IMAGE resequences, MAGJ Homo sapiens cDNA
11096	23736	37010	2.75	9.0E-99	AI479829.1	EST_HUMAN	tm98h07.x1 NCI CGAP Brn25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
11390	23966	37298	2.13	9.0E-99	AA134604.1	EST_HUMAN	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
8627	21319	34481	1.96	8.0E-99	9635487	NT	tm98h07.x1 NCI CGAP Brn25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
5743	18535	31458	10.03	7.0E-99	AF035808.1	NT	zn90d02.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565443 5' similar to
11610	24208	37532	2.99	7.0E-99	AF001886.1	NT	TR:G682994 G682994 GPI-ANCHORED PROTEIN P137. ;
459	13244	25886	1.89	8.0E-99	U10991.1	NT	Human endogenous retrovirus, complete genome
3898	16618	29258	1.15	6.0E-99	AW976364.1	EST_HUMAN	Homo sapiens oscillin (hLn) gene, exon 5
4699	17433	30064	1.21	6.0E-99	4502660	NT	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon
6503	19268	32270	0.72	6.0E-99	7706136	NT	Human G2 protein mRNA, partial cds
6578	19341	32354	1.01	6.0E-99	L43610.1	NT	EST388473 IMAGE resequences, MAGN Homo sapiens cDNA
8003	20698	33826	1.18	6.0E-99	X99101.1	NT	Homo sapiens CD34 antigen (CD34) mRNA
8022	20717	33849	0.53	6.0E-99	6001589	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
8603	21355	34502	2.28	6.0E-99	AB036429.1	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
8762	21454	34602	3.33	6.0E-99	AF080255.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8762	21454	34603	3.33	6.0E-99	AF080255.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8821	21513	34657	0.6	6.0E-99	11431994	NT	H. sapiens mRNA for estrogen receptor
8821	21513	34658	0.6	6.0E-99	11431994	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
10620	23313	36553	3.89	6.0E-99	11526296	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
11433	23200	36431	2.01	6.0E-99	9910279	NT	Homo sapiens iodestart protein mRNA, complete cds
11433	23200	36432	2.01	6.0E-99	9910279	NT	Homo sapiens iodestart protein mRNA, complete cds
11433	23200	36432	2.01	6.0E-99	9910279	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
11433	23200	36432	2.01	6.0E-99	9910279	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
11433	23200	36432	2.01	6.0E-99	9910279	NT	Homo sapiens BH3 interacting domain death agonist (BID), mRNA
11433	23200	36432	2.01	6.0E-99	9910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
11433	23200	36432	2.01	6.0E-99	9910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA



Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1957	14693	27405	1.38	5.0E-99	Y11365.1	NT	H. sapiens IMPA gene, exon 8
4526	17261	29895	1.56	5.0E-99	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
12208	24674		2.81	5.0E-99	BE890177.1	EST_HUMAN	601513157F1NH_MGC_71 Homo sapiens cDNA clone IMAGE:3914391 5'
8220	20914		4.88	3.0E-99	M95596.1	NT	Human E2A/HLA fusion protein (E2A/HLF) mRNA, complete cds
1217	13998		6.88	2.0E-99	AW274792.1	EST_HUMAN	xp0906.x1 NC1_CGAP_HN9 Homo sapiens cDNA clone IMAGE:2739874 3' similar to gb:M31212 MYOSIN LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);
3253	16015	28666	1.29	2.0E-99	M30838.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4506	17241	29874	1.04	2.0E-99	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7574	20243	33348	0.58	2.0E-99	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8608	21300	34444	9.55	2.0E-99	W23507.1	EST_HUMAN	zb46d06.r1 Soares_fetaj_lung_NHL19W Homo sapiens cDNA clone IMAGE:306635 5' similar to
9050	21739	34897	0.76	2.0E-99	R78254.1	EST_HUMAN	gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
11049	23719	36990	3.39	2.0E-99	AF247457.2	NT	y81b09.r1 Soares placenta N62HP Homo sapiens cDNA clone IMAGE:145625 5'
11788	24378	37708	1.46	2.0E-99	10863960	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
307	13111	25751	1.63	1.0E-99	AF114487.1	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNIK10), mRNA
370	13166	25809	1.02	1.0E-99	11526150	NT	Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds
1400	14147	26826	2.09	1.0E-99	M30938.1	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
1549	14295	26981	2.64	1.0E-99	AF192523.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
1549	14295	26982	2.64	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1920	14657	27367	1.41	1.0E-99	4503730	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1920	14657	27368	1.41	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
3083	15848	28489	1.36	1.0E-99	J03171.1	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
4347	17086	29715	2.82	1.0E-99	AF098018.1	NT	Human Interferon-alpha receptor (HIFN-alpha-Rec) mRNA, complete cds
4347	17086	29716	2.82	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
5658	18453	31367	0.68	1.0E-99	7662349	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
6707	19622	32665	1.28	1.0E-99	11421007	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
6707	19622	32666	1.28	1.0E-99	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
7039	25104	32789	0.76	1.0E-99	X98022.1	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
9099	21787		1.49	1.0E-99	11419721	NT	H. sapiens E6-AP gene exon 2
9420	22098	35270	1.71	1.0E-99	AW340174.1	EST_HUMAN	Homo sapiens ALEX1 protein (LOC51309), mRNA
11084	23754	37029	2.01	1.0E-99	7427514	NT	h02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:O02711
11084	23754	37030	2.01	1.0E-99	7427514	NT	O02711 PRO-POL-DUTPASE POLYPROTEIN ;
							Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA
							Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11141	23808	37088	1.8	1.0E-99	5901979	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
11350	24040	37343	2.77	1.0E-99	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11984	24525		6.88	1.0E-99	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1	12830	25443	0.85	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
2	12830	25443	1.53	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
66	12894	25528	1.54	1.0E-100	11418230	NT	Homo sapiens chromosome 21 segment HS21C047
66	12894	25527	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
85	12911	25550	0.89	1.0E-100	AW275237.1	EST_HUMAN	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
185	12979	25618	1.24	1.0E-100	AL163206.2	NT	X778b11.X1 NCL CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2824605.3'
309	13113	25763	0.83	1.0E-100	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C006
334	13135	25770	3.06	1.0E-100	T05087.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C049
427	13213		1.28	1.0E-100	AF003528.1	NT	ES T02975 Fetal brain, Striatum (cat936206) Homo sapiens cDNA clone HFBOR32
477	13263		7.19	1.0E-100	X89631.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
496	13280	25915	1.33	1.0E-100	BE180609.1	EST_HUMAN	G.gallia DNA for ZNF80 gene homolog
998	13758	26418	3.22	1.0E-100	7661685	NT	RC3-HT0625-040500-022-609 HT0625 Homo sapiens cDNA
998	13758	26419	3.22	1.0E-100	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1415	14163	26846	3.14	1.0E-100	BF530735.1	EST_HUMAN	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1538	14285		1.14	1.0E-100	AW207555.1	EST_HUMAN	602072084F1 NCL CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4215039.5'
1543	14289	26976	1.81	1.0E-100	AI200857.1	EST_HUMAN	UI-H-B11-afk-c-07-Q.U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164.3'
1856	14594	27309	1.41	1.0E-100	AB032994.1	NT	q162f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754633.3' similar to SW:CYT_COTJA
2238	14966		1.39	1.0E-100	D83349.1	NT	P81061 CYSTATIN1
2439	15159	27894	1.33	1.0E-100	X82468.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2710	15417	28166	2.36	1.0E-100	11418976	NT	Rat mRNA for short type PB-cadherin, complete cds
3018	15784		5.5	1.0E-100	D11078.1	NT	H.sapiens mRNA for IFN-gamma (pK-C-0)
4198	16927	29558	1.52	1.0E-100	AF067354.1	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
4211	16952	29578	2.14	1.0E-100	4503792	NT	Homo sapiens RGH2 gene, retrovirus-like element
4418	17154	29785	1.03	1.0E-100	AF036943.1	NT	Homo sapiens myotubularin-related protein 1a mRNA, partial cds
5031	17751	30362	2.66	1.0E-100	5032104	NT	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA
5031	17751	30363	2.66	1.0E-100	5032104	NT	Homo sapiens myelin transcription factor 1-like (MYT1-L) mRNA, complete cds
5207	18015	30637	1.62	1.0E-100	BF244218.1	EST_HUMAN	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
							Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
							Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
							601863184F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4080969.5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5421	18220	30931	0.59	1.0E-100	AW075983.1	EST_HUMAN	xa82f01.x1 NCL CGAP_CML1 Homo sapiens cDNA clone IMAGE:2573305 3' similar to gb:X12433
5614	18410	31323	1.33	1.0E-100	AU118182.1	EST_HUMAN	PROTEIN PHPS1-2 (HUMAN);
5660	18455	31369	1.26	1.0E-100	AF136116.1	NT	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003048 5'
5747	18539	31461	0.8	1.0E-100	X14690.1	NT	Homo sapiens NF-E2-related factor 3 gene, complete cds
6071	18650	31814	0.94	1.0E-100	4557668	NT	Human mRNA for plasma inter-alpha-trypsin inhibitor heavy chain H(3)
6071	18650	31815	0.94	1.0E-100	4557668	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6343	19113		1.67	1.0E-100	5728667	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6405	19174	32173	5.64	1.0E-100	AU140214.1	EST_HUMAN	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6457	19224	32224	1.97	1.0E-100	AU136800.1	EST_HUMAN	AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5'
6586	19349	32362	1.37	1.0E-100	R10887.1	EST_HUMAN	AU136800 PLACE1 Homo sapiens cDNA clone PLACE1005089 5'
6670	19587	32622	0.9	1.0E-100	7382479	NT	y38c08.s1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:129134 3'
6742	19576	32608	1.19	1.0E-100	AA496841.1	EST_HUMAN	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
6742	19576	32609	1.19	1.0E-100	AA496841.1	EST_HUMAN	ae33b06.1r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR:G487418
6786	19530	32557	1.13	1.0E-100	BF376478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN ;
6786	19530	32558	1.13	1.0E-100	BF376478.1	EST_HUMAN	MR1-TN0046-060900-004-505 TN0046 Homo sapiens cDNA
6793	19537	32566	6.76	1.0E-100	X04571.1	NT	MR1-TN0046-060900-004-505 TN0046 Homo sapiens cDNA
8430	21123	34261	7.17	1.0E-100	BF103853.1	EST_HUMAN	Human mRNA for kidney epidermal growth factor (EGF) precursor
8466	21158		4.8	1.0E-100	AL163203.2	NT	607647357F1 NIH_MGC_61 Homo sapiens cDNA clone IMAGE:3931310 5'
8912	21603	34746	0.68	1.0E-100	AU116951.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
8912	21603	34747	0.68	1.0E-100	AU116951.1	EST_HUMAN	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9132	21820	34986	3.52	1.0E-100	A8040918.1	NT	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9210	22089		2.78	1.0E-100	A1972388.1	EST_HUMAN	Homo sapiens mRNA for KIAA1485 protein, partial cds
9333	20404	33520	1.82	1.0E-100	AW998611.1	EST_HUMAN	w37g09.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2489920 3' similar to contains element
9386	22048		7.61	1.0E-100	AU127720.1	EST_HUMAN	MER22 repetitive element ;
9483	22136	36316	2.11	1.0E-100	A8046846.1	NT	PMO-BN0065-100300-001-c06 BN0065 Homo sapiens cDNA
9483	22136	36317	2.11	1.0E-100	A8046846.1	NT	AU127720 NT2RP2 Homo sapiens cDNA clone NT2RP2001918 5'
9743	22394	35598	1.68	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1626 protein, partial cds
9743	22394	35599	1.68	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1626 protein, partial cds
9905	22554	35749	0.49	1.0E-100	AV732101.1	EST_HUMAN	hh83c11.y1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5'
10368	23014	36230	1.47	1.0E-100	BF347519.1	EST_HUMAN	hh83c11.y1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10458	23104		2.2	1.0E-100	Y10391.1	NT	Human endogenous retrovirus HERV-K, pol gene
10658	23349	36556	6.27	1.0E-100	BF327292.1	EST_HUMAN	MRO-BN0070-270300-008-h11 BN0070 Homo sapiens cDNA
11326	24017	37319	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11328	24017	37320	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11356	12830	25443	2.11	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
11633	24230		1.59	1.0E-100	AW875484.1	EST_HUMAN	QV2-P10012-010300-070-d04 P10012 Homo sapiens cDNA
11681	24276		1.48	1.0E-100	AF266285.1	NT	Homo sapiens golgin-like protein (GLP) gene, complete cds
11749	24340	37868	1.57	1.0E-100	AA118605.1	EST_HUMAN	zK89a03.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:489664 5'
11749	24340	37869	1.57	1.0E-100	AA115605.1	EST_HUMAN	zK89a03.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:489664 5'
11907	24471	37806	6.67	1.0E-100	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12031	25278		1.51	1.0E-100	BF446549.1	EST_HUMAN	7q88h03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to TR:Q21997 Q21997
12200	24668	31071	3.67	1.0E-100	11545732	NT	COSMID R151, [2] TR:Q8UA08 ;
12792	25044	30968	4.62	1.0E-100	11417974	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
75	12902	25539	1.75	1.0E-101	7110714	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
75	12902	25540	1.75	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
671	13447	26087	1.62	1.0E-101	AB007915.2	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
688	13463	26111	5.88	1.0E-101	7110734	NT	Homo sapiens mRNA for KIAA0446 protein, partial cds
688	13463	26112	5.88	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
754	13526	26185	1.99	1.0E-101	7657454	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
833	13603	26273	1.5	1.0E-101	4503914	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PEST), mRNA
904	13671	26335	1.22	1.0E-101	Z20656.1	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminimidazole synthetase (GART) mRNA
964	13729	26396	14.26	1.0E-101	BF681218.1	EST_HUMAN	Homo sapiens of cardiac alpha-myosin heavy chain gene
1030	13790	26449	1.63	1.0E-101	A1221878.1	EST_HUMAN	602156474F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4297291 5'
1577	14324	27012	1.46	1.0E-101	5921460	NT	qg98e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
1577	14324	27013	1.46	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1740	14482	27183	1.52	1.0E-101	7662183	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1938	14673	27389	1.62	1.0E-101	4502996	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
2050	14783	27510	1.78	1.0E-101	BE443070.1	EST_HUMAN	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
2349	15592	27608	1.71	1.0E-101	5729832	NT	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1) mRNA
2620	15332	28076	2.8	1.0E-101	X72993.1	NT	RC3-ST0281-160800-016-h09 ST0281 Homo sapiens cDNA
							Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
							H. sapiens EWS gene, exon 5

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2747	15452	28192	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
2747	15452	28193	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
2955	15721		13.73	1.0E-101	AJ252312.1	NT	Homo sapiens genomic downstream Rhesus box
3198	15961	28613	1.98	1.0E-101	4885270	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
3235	15997		2.27	1.0E-101	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3562086 5'
3375	16134	28790	1.93	1.0E-101	AW965556.1	EST_HUMAN	EST377629 MAGE resequences, MAGI Homo sapiens cDNA
3395	15452	28192	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3395	15452	28193	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3857	16607	29245	3.69	1.0E-101	AB022786.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
4974	17697	30304	1.16	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
4974	17697	30305	1.16	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5235	18041	30669	1.22	1.0E-101	AW965139.1	EST_HUMAN	EST377212 MAGE resequences, MAGI Homo sapiens cDNA
5913	18698	31651	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
5913	18698	31652	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6595	19358	32372	1.27	1.0E-101	11430734	NT	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7173	19859		1.01	1.0E-101	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7220	19905	32977	5.57	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7220	19905	32978	5.57	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7376	20058	33136	7.48	1.0E-101	AW008475.1	EST_HUMAN	hw55112.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2533487 3'
7474	20147		1.79	1.0E-101	BE257384.1	EST_HUMAN	601108217F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3348901 5'
7623	20289	33398	7.43	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA
7813	20508	33631	0.84	1.0E-101	BE275821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
7813	20508	33632	0.84	1.0E-101	BE275821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
7954	20649	33772	2.88	1.0E-101	BF029174.1	EST_HUMAN	601764686F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996837 5'
8221	20915	34050	0.67	1.0E-101	AW630070.1	EST_HUMAN	hh74gt10.y1 NCI_CGAP_GUT1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb.J03143
8221	20915	34051	0.67	1.0E-101	AW630070.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
8221	20915	34051	0.67	1.0E-101	AW630070.1	EST_HUMAN	hh74gt10.y1 NCI_CGAP_GUT1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb.J03143
8908	21599	34741	1.08	1.0E-101	AA038880.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9229	21908	35080	0.83	1.0E-101	AB037772.1	NT	zkl29g08.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:471998 5' similar to
9229	21908	35081	0.83	1.0E-101	AB037772.1	NT	PIR:S54640 S54640 YD9335.03c protein - yeast;
9362	20432	33553	17.13	1.0E-101	XG0069.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9362	20432	33553	17.13	1.0E-101	XG0069.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9362	20432	33554	17.13	1.0E-101	XG0069.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase
9362	20432	33554	17.13	1.0E-101	XG0069.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9375	21950	35123	17.01	1.0E-101	9845492	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
9657	22309	35506	6.24	1.0E-101	BE619667.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3876953 3'
9657	22309	35507	6.24	1.0E-101	BE619667.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3876953 3'
9794	22445	35650	0.72	1.0E-101	10963960	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
10308	22955	36171	1.49	1.0E-101	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10447	23093	36323	0.94	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
10447	23093	36324	0.94	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
10788	23471	36713	1.98	1.0E-101	S38327.1	NT	branched-chain alpha-keto acid dehydrogenase complex E1 alpha subunit (human, Genomic, 165 nt, segment 8 of 9)
11053	23723	36994	2.11	1.0E-101	AB020626.1	NT	Homo sapiens mRNA for KIAA0819 protein, partial cds
11398	24004	37307	2.06	1.0E-101	AI590078.1	EST_HUMAN	tm58c01.x1 NCJ_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162304 3' similar to gb:M13361 HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11398	24004	37308	2.06	1.0E-101	AI590078.1	EST_HUMAN	tm58c01.x1 NCJ_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162304 3' similar to gb:M13361 HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11763	24354	37686	1.31	1.0E-101	AI908168.1	EST_HUMAN	RC-BT163-290499-085 BT163 Homo sapiens cDNA
11763	24354	37687	1.31	1.0E-101	AI908168.1	EST_HUMAN	RC-BT163-290499-085 BT163 Homo sapiens cDNA
12461	24829		13.68	1.0E-101	AW939051.1	EST_HUMAN	QV1-DT0068-240200-085-g01 DT0068 Homo sapiens cDNA
38	12866	25485	2	1.0E-102	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230) mRNA, complete cds
332	13133	25767	4.35	1.0E-102	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
758	13530	26190	1.59	1.0E-102	455753.4	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
1095	13853	26512	2.8	1.0E-102	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
1245	13994	26660	1.67	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1245	13994	26661	1.67	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1261	14010	26878	0.99	1.0E-102	4826977	NT	Homo sapiens reelin (RELN) mRNA
1398	14145	26823	119.7	1.0E-102	BE408447.1	EST_HUMAN	601268982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3628901 5'
2307	15032	27769	1.88	1.0E-102	AI124669.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to SW:GC95_HUMAN Q08379 GOLGIN-95. ;
2307	15032	27770	1.88	1.0E-102	AI124669.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to SW:GC95_HUMAN Q08379 GOLGIN-95. ;
3061	15827	28472	1.32	1.0E-102	7661979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
3130	15895	28538	4.76	1.0E-102	AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
3130	15895	28539	4.76	1.0E-102	AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
4207	16948	29574	1.57	1.0E-102	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
4378	17115	29748	2.17	1.0E-102	BE251310.1	EST_HUMAN	601107843F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3343882 5'

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5287	18092	30753	1.87	1.0E-102	AF067133.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5663	18458		9.17	1.0E-102	AB034951.1	NT	Homo sapiens HSC54 mRNA for heat shock cognate protein 54, complete cds
5698	18492	31414	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5698	18492	31415	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5704	18498	31420	0.81	1.0E-102	11433046	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6200	18976	31954	2.93	1.0E-102	A1459825.1	EST_HUMAN	ar82109.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151785 3' similar to TR:Q13137
7038	19728	32785	0.76	1.0E-102	BE729323.1	EST_HUMAN	Q13137 NDP52 ;
7065	19756	32821	1.04	1.0E-102	BE386106.1	EST_HUMAN	601561505F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3881241 5'
7255	19839	33014	8.23	1.0E-102	AJ238964.1	NT	601272721F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3618243 5'
7524	20195	33288	2.48	1.0E-102	AV710738.1	EST_HUMAN	Homo sapiens mRNA for Centaurin-alpha2 protein
8122	20816	33952	3.91	1.0E-102	BE763051.1	EST_HUMAN	AV710738 Cu Homo sapiens cDNA clone CUAAKD03 5'
8201	20895	34032	1.32	1.0E-102	BE910555.1	EST_HUMAN	QV3-NT0025-210600-236-h08 NT0025 Homo sapiens cDNA
8392	21085	34219	2.21	1.0E-102	AV694817.1	EST_HUMAN	601501107F1 NIH_MGC 70 Homo sapiens cDNA clone IMAGE:3603145 5'
8501	21193	34335	1.19	1.0E-102	AB007923.1	NT	AV694817 GKC Homo sapiens cDNA clone GKCEEE11 5'
8829	21521	34667	0.63	1.0E-102	BE388063.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8829	21521	34668	0.63	1.0E-102	BE388063.1	EST_HUMAN	601283770F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3605536 5'
9150	21881	35049	0.52	1.0E-102	A1762859.1	EST_HUMAN	601283770F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3605536 5'
9181	21851	35017	0.81	1.0E-102	AV755842.1	EST_HUMAN	w631h06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2397971 3' similar to contains MER4.11
9221	21900	35069	2.28	1.0E-102	T70393.1	EST_HUMAN	MER4 MER4 repetitive element ;
9221	21900	35070	2.28	1.0E-102	T70393.1	EST_HUMAN	AV755942 BM Homo sapiens cDNA clone BMFAUD06 5'
9311	21978	35151	3.79	1.0E-102	AJ124629.1	EST_HUMAN	yd13d07.r1 Soares fetal liver spleen rNFLS Homo sapiens cDNA clone IMAGE:67021 5'
10281	22929		0.69	1.0E-102	AF153715.1	NT	yd13d07.r1 Soares fetal liver spleen rNFLS Homo sapiens cDNA clone IMAGE:67021 5'
10367	23013	36228	3.67	1.0E-102	A1905037.1	EST_HUMAN	AUT24629 NT2RMA Homo sapiens cDNA clone NT2RMA000309 5'
10367	23013	36229	3.67	1.0E-102	A1905037.1	EST_HUMAN	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
10428	23074	36295	1.24	1.0E-102	AA90786.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
11008	23680	36937	2.56	1.0E-102	4507822	NT	RC-BT074-260499-014 BT074 Homo sapiens cDNA
11008	23680	36938	2.56	1.0E-102	4507822	NT	or57h04.s1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1560823 3' similar to
11280	23951	37248	1.56	1.0E-102	AA868675.1	EST_HUMAN	SW:CAV2_HUMAN_P51638 CAVEOLIN-2, [1] ;
11380	23987	37287	3.01	1.0E-102	BF359243.1	EST_HUMAN	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
							Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
							ak49h10.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409347 3'
							RC6-E10072-150600-011-F01 E10072 Homo sapiens cDNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11710	24305	37631	3.57	1.0E-102	U41302.1	NT	Human chromosome 18 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
11911	24475		3.52	1.0E-102	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
12450	24820	31023	4.69	1.0E-102	AW300862.1	EST_HUMAN	xk07c12.x1 NCL CGAP_Co20 Homo sapiens cDNA clone IMAGE:2666038 3'
67	12895	25528	1.19	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
67	12895	25529	1.19	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
98	12924	25581	10.5	1.0E-103	D87078.2	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
203	13016	25656	1.45	1.0E-103	5453793	NT	Homo sapiens nucleolar protein (KKE/D repeat) (NOP56) mRNA
980	13725	26389	0.79	1.0E-103	AJ278348.1	NT	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
1221	13971	26643	10.23	1.0E-103	BE877541.1	EST_HUMAN	601485388F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887878 5'
1597	14337	27026	3.76	1.0E-103	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4k230) mRNA, complete cds
1907	14644	27354	1.75	1.0E-103	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
1968	14704	27420	1.44	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
1968	14704	27420	1.44	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2303	15028	27765	1.15	1.0E-103	AU134991	EST_HUMAN	AU134991 PLACE1 Homo sapiens cDNA clone PLACE1000965 5'
2452	15170	27909	1.33	1.0E-103	AF060568.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
2603	15316	28055	1.23	1.0E-103	BF528379.1	EST_HUMAN	602041882F1 NCL CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179428 5'
2603	15316	28056	1.23	1.0E-103	BF529379.1	EST_HUMAN	602041882F1 NCL CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179428 5'
3064	15530		2.68	1.0E-103	BE744722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834315 5'
3374	16133	28789	4.1	1.0E-103	AW286245.1	EST_HUMAN	U1-H-BW 0-elt-h-11 0-U1.s1 NCL CGAP_Sub66 Homo sapiens cDNA clone IMAGE:2733165 3'
3433	16189	28837	0.99	1.0E-103	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
3737	16490		8.55	1.0E-103	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
3774	16526	29165	1.23	1.0E-103	AA485683.1	EST_HUMAN	ab10d12.s1 Stratagene lung (#637210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element
3810	16562	29195	1.72	1.0E-103	11430876	NT	Homo sapiens neuropilin 1 (NRP1), mRNA
3985	16733	29367	3.47	1.0E-103	T23683.1	EST_HUMAN	seq340 b4HB3MA-Cat109+10-B10 Homo sapiens cDNA clone b4HB3MA-Cat109+10-B10-7 3'
5844	18632	31587	0.96	1.0E-103	BF569527.1	EST_HUMAN	602186023F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310373 5'
5852	18639	31587	2.62	1.0E-103	AF179995.1	NT	Homo sapiens sepin 2 (SEPP2) mRNA, partial cds
6174	18951	31923	0.89	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6174	18951	31924	0.89	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6388	19137	32132	0.75	1.0E-103	AW954566.1	EST_HUMAN	EST366636 IMAGE resequences, MAGC Homo sapiens cDNA
6388	19137	32132	0.75	1.0E-103	AW954566.1	EST_HUMAN	EST366636 IMAGE resequences, MAGC Homo sapiens cDNA
6498	25092	32265	1.53	1.0E-103	AA781442.1	EST_HUMAN	aj26603.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391452 3'
6535	19301	32304	0.94	1.0E-103	AF033490.1	NT	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4



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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6618	19380	32398	1.48	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769
6618	19380	32397	1.48	1.0E-103	AI590071.1	EST_HUMAN	Q13769 ANONYMOUS ; tm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769
6747	17916	30579	1.53	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6747	17916	30580	1.53	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6872	17949	30544	1.27	1.0E-103	11431100	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
6935	19670	32716	0.99	1.0E-103	AJ295880.1	NT	Homo sapiens KIA0851 gene (partial), XT3 gene and LZTFL1 gene
7127	19815	32883	1.63	1.0E-103	AW965776.1	EST_HUMAN	EST377649 IMAGE resequences, MAGI Homo sapiens cDNA
7233	19918	32960	6.93	1.0E-103	BE746158.1	EST_HUMAN	601571537F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838545 5'
7671	20335	33446	4.21	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769
7671	20335	33447	4.21	1.0E-103	AI590071.1	EST_HUMAN	Q13769 ANONYMOUS ;
8187	20881	34019	0.77	1.0E-103	T31080.1	EST_HUMAN	EST27193 Human Brain Homo sapiens cDNA 5' and similar to None
8519	21211	34354	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8519	21211	34355	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8604	21296	34439	1.1	1.0E-103	BF109244.1	EST_HUMAN	7160603.x1 Soares_NSF_F8_9W_OT_PA_S1 Homo sapiens cDNA clone IMAGE:3525964 3' similar to SW:PTNF_HUMAN Q16925 PROTEIN-TYROSINE PHOSPHATASE D1 ;
9005	21695	34845	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9005	21695	34848	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9046	21736	34891	1.16	1.0E-103	AA681086.1	EST_HUMAN	nd13602.s1 NCI_CGAP_Ov1 Homo sapiens cDNA clone IMAGE:800162 3' similar to gbl02426 26S PROTEASE SUBUNIT 4 (HUMAN);
9088	21777	34941	5.04	1.0E-103	AA774980.1	EST_HUMAN	ae84d12.s1 Strathgery schizo brain S11 Homo sapiens cDNA clone IMAGE:970871 3' similar to gb:X03747_cds1 SODIUMPOTASSIUM-TRANSPORTING ATPASE BETA-1 (HUMAN);
9162	21832	34995	0.56	1.0E-103	BE93842.1	EST_HUMAN	QV2-NN0045-230800-322-603 NN0045 Homo sapiens cDNA
9162	21832	34996	0.56	1.0E-103	BE93842.1	EST_HUMAN	QV2-NN0045-230800-322-603 NN0045 Homo sapiens cDNA
9958	22806	35811	1.44	1.0E-103	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
9999	22847	35859	1.89	1.0E-103	AW963676.1	EST_HUMAN	EST375749 IMAGE resequences, MAGH Homo sapiens cDNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10138	22786	35998	9.2	1.0E-103	AI878956.1	EST_HUMAN	au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518328 5' similar to TR:O15048 O15048 KIAA0338;
10634	23326	36563	3.56	1.0E-103	AI792759.1	EST_HUMAN	002a08.y5 NCLCGAP_Lu5 Homo sapiens cDNA clone IMAGE:1522283 5' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING;
10737	23424	36668	2.04	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10737	23424	36669	2.04	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10748	23434	36677	2.22	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
10748	23434	36678	2.22	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
10793	23476	36717	1.3	1.0E-103	X87831.2	NT	Homo sapiens mRNA for partial OCT/plexin-A2 protein
10793	23476	36718	1.3	1.0E-103	X87831.2	NT	Homo sapiens mRNA for partial OCT/plexin-A2 protein
11347	24037	37340	2.8	1.0E-103	AU136283.1	EST_HUMAN	AU136283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5'
11423	23190	36421	10.74	1.0E-103	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30 7e68a10.x1 Soares_NSF F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to contains MER29 t3 MER29 repetitive element;
11748	24339	37667	2.41	1.0E-103	BE644611.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
11837	24494		2.11	1.0E-103	11526281	NT	Homo sapiens gene for AF-6, complete cds
12128	24620	31091	2.83	1.0E-103	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
227	13039	25678	3.73	1.0E-104	AL037649.3	EST_HUMAN	DKFZp564H1072_r1 564 (synonym: hibr2) Homo sapiens cDNA clone DKFZp564H1072 5'
227	13039	25677	3.73	1.0E-104	AL037649.3	EST_HUMAN	DKFZp564H1072_r1 564 (synonym: hibr2) Homo sapiens cDNA clone DKFZp564H1072 5'
1881	14818	27328	2.18	1.0E-104	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2190	14919	27653	3.68	1.0E-104	AA132975.1	EST_HUMAN	z022c06.s1 Stratagene colon (#637204) Homo sapiens cDNA clone IMAGE:587626 3' similar to gb:Z14116_rna1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN);
2201	14929	27668	2.57	1.0E-104	BE744628.1	EST_HUMAN	601577460F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:328438 5'
2369	15091	27829	1.38	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2369	15091	27830	1.38	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2438	15158	27893	1.68	1.0E-104	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2507	15224	27965	1.11	1.0E-104	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2507	15224	27966	1.11	1.0E-104	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2874	15641	28285	7.41	1.0E-104	M34671.1	NT	Human lymphocytic antigen CD59/MEIV43 mRNA, complete cds
2917	15683		2.74	1.0E-104	Y11151.1	NT	H. sapiens gene encoding phenylpyruvate tautomerase II
3386	16145		2.04	1.0E-104	AA319436.1	EST_HUMAN	EST21658 Adrenal gland tumor Homo sapiens cDNA 5' end
3387	16341	28986	0.79	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3387	16341	28987	0.79	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3924	16674	29315	0.76	1.0E-104	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
4344	17083	29712	3.93	1.0E-104	X02761.1	NT	Human mRNA for fibronectin (FN precursor)

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4570	17305	29832	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4570	17305	29833	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
5106	17824	30441	1.08	1.0E-104	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
5850	18637	31573	1.26	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5850	18637	31574	1.26	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5897	18682	31630	1.12	1.0E-104	AB017332.1	NT	Homo sapiens alk3 mRNA for Autocrine/paracrine-related kinase 3, complete cds
6375	19144	32141	9.51	1.0E-104	AI788797.1	EST_HUMAN	wf03b12.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145
6375	19144	32142	9.51	1.0E-104	AI788797.1	EST_HUMAN	KIAA0132 PROTEIN, contains element LTR7 repetitive element ;
6551	19316	32322	0.75	1.0E-104	7706512	NT	KIAA0132 PROTEIN, contains element LTR7 repetitive element ;
6708	19621	32663	3.31	1.0E-104	BE314182.1	EST_HUMAN	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6706	19621	32664	3.31	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
7125	19813	32881	2.03	1.0E-104	11425572	NT	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
8495	21187	34330	0.83	1.0E-104	BF509244.1	EST_HUMAN	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
9065	21754	34915	5.23	1.0E-104	BF448230.1	EST_HUMAN	U1-H-B14-aww-b-09-UJ.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086176 3'
9163	21833	34997	0.5	1.0E-104	AA682308.1	EST_HUMAN	ncd16g11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3365948 3'
9184	21854		1.31	1.0E-104	T74219.1	EST_HUMAN	398805.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462897 3'
9214	21893	35060	4.27	1.0E-104	AF091395.1	NT	yc83f02.r1 Soares Infant brain T1N1B Homo sapiens cDNA clone IMAGE:22440 5'
9214	21893	35061	4.27	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9341	20412	33529	4.4	1.0E-104	BF352841.1	EST_HUMAN	Homo sapiens Trio isoform mRNA, complete cds
9341	20412	33530	4.4	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9654	22306	35503	0.85	1.0E-104	AW103848.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9654	22306	35504	0.85	1.0E-104	AW103848.1	EST_HUMAN	Q24116 HYPOTHETICAL 28.4 KD PROTEIN ;
9847	22497	35698	0.71	1.0E-104	AF13514.1	NT	Q24116 HYPOTHETICAL 28.4 KD PROTEIN ;
9993	22641	35852	2.83	1.0E-104	BE791713.1	EST_HUMAN	Homo sapiens histone acetyltransferase MORF mRNA, complete cds
9993	22641	35853	2.83	1.0E-104	BE791713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10299	22946	36160	1.29	1.0E-104	AV728070.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10339	22986	36204	4.51	1.0E-104	AU130765.1	EST_HUMAN	AV728070 HTC Homo sapiens cDNA clone HTCBYA07 5'
10450	23096	36327	4.41	1.0E-104	U66355.1	NT	AU130765 NT2RP3 Homo sapiens cDNA clone NT2RP3001398 5'
10464	23110		0.92	1.0E-104	11427757	NT	Human beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25
11268	23630	37221	2.07	1.0E-104	BE720191.1	EST_HUMAN	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
							RCO-HT0885-310700-021-509 HT0885 Homo sapiens cDNA

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## Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11268	23830	37222	2.07	1.0E-104	BE720191.1	EST_HUMAN	RC0-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
11299	23859	37259	4.98	1.0E-104	BF684288.1	EST_HUMAN	602141215F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302507 5'
11590	24189	37505	1.75	1.0E-104	BE731976.1	EST_HUMAN	601566806F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841681 5'
11590	24189	37506	1.75	1.0E-104	BE731976.1	EST_HUMAN	601566806F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841681 5'
11791	24381	37712	1.42	1.0E-104	11434729	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
12702	24982		2.38	1.0E-104	BE393892.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658876 5'
272	15514	25722	11.13	1.0E-105	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-1, Alzheimer disease) (APP), mRNA
416	12827	25440	8.99	1.0E-105	4505150	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
580	13380	25987	1.92	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
580	13360	25988	1.92	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1814	14554	27269	0.91	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1919	14856	27366	1.93	1.0E-105	DS0918.1	NT	Human mRNA for KIAA0128 gene, partial cds
2186	14915	27649	1.29	1.0E-105	AA316369.1	EST_HUMAN	EST20609 Spleen 1 Homo sapiens cDNA 5' end similar to autoimmune antigen Ku, p70/p80 subunit
2322	15047		1.44	1.0E-105	BE891766.1	EST_HUMAN	601434491F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919511 5'
3006	15772		2.89	1.0E-105	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 1/3
3346	16105	28769	0.88	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZ2B), mRNA
4077	18821	29447	2.07	1.0E-105	AW961688.1	EST_HUMAN	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZ2B), mRNA
4694	17428	30058	0.74	1.0E-105	BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3650156 5'
4694	17428	30059	0.74	1.0E-105	BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3650156 5'
4886	17813		4.24	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C008
5043	17782	30377	1.16	1.0E-105	AB018339.1	NT	Homo sapiens mRNA for KIAA0766 protein, partial cds
5091	17810	30426	0.94	1.0E-105	AW966016.1	EST_HUMAN	EST378088 MAGI resequences, MAGI Homo sapiens cDNA
5247	18053	30681	0.96	1.0E-105	AF016704.1	NT	Homo sapiens EG-AP ubiquitin-protein ligase (UBE3A) gene, exon 2
5312	18116		1.07	1.0E-105	11420734	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
5804	19485	32485	2.16	1.0E-105	BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
5804	19485	32486	2.16	1.0E-105	BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
6885	17961	30515	3.65	1.0E-105	11419196	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6885	17961	30516	3.65	1.0E-105	11419196	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6927	19863	32709	0.83	1.0E-105	AW951634.1	EST_HUMAN	EST363689 MAGI resequences, MAGI Homo sapiens cDNA
7184	19870	32844	0.59	1.0E-105	BE902616.1	EST_HUMAN	601677279F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960019 5'
7722	20386	33500	0.65	1.0E-105	6806894	NT	Homo sapiens plekophillin 4 (PKP4), mRNA
7758	20454	33579	0.97	1.0E-105	X12556.1	NT	Human mRNA for dbl proto-oncogene

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7827	20622	33750	6.55	1.0E-105	705087.1	EST_HUMAN	EST02975 Fetal brain, Stralagene (cat#338206) Homo sapiens cDNA clone HFBRCR32
8297	20991	34129	1.41	1.0E-105	AW007194.1	EST_HUMAN	ws50c10.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2500626 3' similar to SW:ACSA_PENCH P36333 ACETYL-COENZYME A SYNTHETASE ;
8826	21518	34683	0.88	1.0E-105	AW840817.1	EST_HUMAN	RC1-CN0008-070100-011-e05 CN0008 Homo sapiens cDNA
8948	21639	34786	2.82	1.0E-105	AW016879.1	EST_HUMAN	UI-H-810p-abi-b-12-Q-Us1 NCL_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2711782 3'
9103	21791	34954	0.9	1.0E-105	AW882372.1	EST_HUMAN	QV2-OT0062-140300-083-409 OT0062 Homo sapiens cDNA
9103	21791	34955	0.9	1.0E-105	AW882372.1	EST_HUMAN	QV2-OT0062-140300-083-409 OT0062 Homo sapiens cDNA
9467	22077	35247	0.88	1.0E-105	BE867793.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
9467	22077	35248	0.88	1.0E-105	BE867793.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
10850	23531	36776	5.73	1.0E-105	AF254822.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
11195	23860	37146	1.59	1.0E-105	D63548.1	NT	Homo sapiens COL4A6 gene for a(IV) collagen, exon 31
11250	23912	37204	2.38	1.0E-105	7705036	NT	Homo sapiens Ran binding protein 11 (LOC51194), mRNA
11580	24179	37494	2.58	1.0E-105	AW027554.1	EST_HUMAN	ww74f07.x1 Soares, thymus_NHFTb Homo sapiens cDNA clone IMAGE:2535301 3' similar to TR:P87892
11875	24270	37592	1.43	1.0E-105	BF430921.1	EST_HUMAN	P87892 PROTEASE ;
11831	24415	37753	1.73	1.0E-105	AB004924.1	NT	7a18c10.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3574291 3' similar to TR:P97680 P97680
11831	24415	37754	1.73	1.0E-105	AB004924.1	NT	RIN1.1 ;
147	12982	25654	1.39	1.0E-106	AW503208.1	EST_HUMAN	Homo sapiens gene for Smad 3, exon 2 and 3
200	13013	25654	1.79	1.0E-106	AW503208.1	EST_HUMAN	Homo sapiens gene for Smad 3, exon 2 and 3
529	13313	25947	2.68	1.0E-106	AW965556.1	EST_HUMAN	UI-HF-BN0-akt-g-07-Q-Us1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
591	13371	26000	0.75	1.0E-106	J00146.1	NT	tg79c01.x1 NCL_CGAP_UH Homo sapiens cDNA clone IMAGE:2215008 3'
592	13371	26000	2.06	1.0E-106	J00146.1	NT	EST377629 MAGC resequences, MAGI Homo sapiens cDNA
1515	14282	26948	1.33	1.0E-106	AF145712.1	NT	Human dihydrofolate reductase pseudogene (psi-hd1)
1597	14440	27138	3.48	1.0E-106	U48724.1	NT	Human dihydrofolate reductase pseudogene (psi-hd1)
1796	14536	27245	4.71	1.0E-106	AA527446.1	EST_HUMAN	Homo sapiens soluble neuropilin-1 mRNA, complete cds
1796	14536	27246	4.71	1.0E-106	AA527446.1	EST_HUMAN	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
2118	14849	27578	2.31	1.0E-106	BE144286.1	EST_HUMAN	ng41c05.s1 NCL_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element
2315	15040	27778	2.89	1.0E-106	4504184	NT	LTR3 repetitive element ;
2610	15322	28084	1.82	1.0E-106	BE260201.1	EST_HUMAN	ng41c05.s1 NCL_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element
2761	15488	28210	3.24	1.0E-106	A1276526.1	EST_HUMAN	LTR3 repetitive element ;
2828	14159	26842	1.91	1.0E-106	4504184	NT	ng41c05.s1 NCL_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2828	14159	28843	1.91	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2842	15707	28357	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
2842	15707	28358	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
3176	15939	28588	2.18	1.0E-106	8922865	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3176	15939	28589	2.18	1.0E-106	8922865	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3367	16126	28784	0.81	1.0E-106	AB008881.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
3434	16190	28838	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3434	16190	28839	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4017	16763	28391	7.95	1.0E-106	AW974650.1	EST_HUMAN	EST386875 MAGC resequences, MAGN Homo sapiens cDNA
4017	16763	28392	7.95	1.0E-106	AW974650.1	EST_HUMAN	EST386875 MAGC resequences, MAGN Homo sapiens cDNA
4035	16780	28410	1.05	1.0E-106	5728729	NT	Homo sapiens APIS-like 1 (APISL1), mRNA
4562	17297	28824	1.4	1.0E-106	BE144288.1	EST_HUMAN	MR0-HT0165-140200-008-410 HT0165 Homo sapiens cDNA
5135	17853	30469	1.09	1.0E-106	AL050253.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMPs, Tolloid, Sushii repeat proteins
5135	17853	30470	1.09	1.0E-106	AL050253.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMPs, Tolloid, Sushii repeat proteins
5285	18090	30750	2.61	1.0E-106	AA781155.1	EST_HUMAN	al24b06.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391225 3' similar to gb:X12433 PROTEIN
5764	18555	31480	0.58	1.0E-106	AU130113.1	EST_HUMAN	PHPS1-2 (HUMAN);
5764	18555	31481	0.58	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5816	18605	31533	0.58	1.0E-106	AA434168.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5804	18689	31637	1.3	1.0E-106	AU143428.1	EST_HUMAN	zw28d12.s1 Soares ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:770615 3'
5904	18689	31638	1.3	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6011	18782	31755	4.89	1.0E-106	BF679574.1	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6303	18992	31860	0.77	1.0E-106	BE897112.1	EST_HUMAN	602154012F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295087 5'
6325	19095	32063	17.66	1.0E-106	11545913	NT	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6325	19095	32064	17.66	1.0E-106	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
7271	19955	33031	5.16	1.0E-106	AA663779.1	EST_HUMAN	Homo sapiens xylosyltransferase II (XT2), mRNA
7324	20007	33084	5.33	1.0E-106	11429617	NT	ae72607.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:969732 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7402	20090	33161	1.21	1.0E-106	BE292722.1	EST_HUMAN	KINESIN HEAVY CHAIN (HUMAN);
7511	20182	33275	9.29	1.0E-106	11425503	NT	Homo sapiens XPMC2 protein (LOC57109), mRNA
7511	20182	33276	9.29	1.0E-106	11425503	NT	Homo sapiens XPMC2 protein (LOC57109), mRNA
7714	20378	33491	0.67	1.0E-106	AU116850.1	EST_HUMAN	601105736F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2988345 5'
							Homo sapiens sorting nexin 11 (SNX11), mRNA
							Homo sapiens sorting nexin 11 (SNX11), mRNA
							AU116850 HEMBA1 Homo sapiens cDNA clone HEMBA1000129 5'

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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7884	20579	33707	6.44	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
7884	20579	33708	6.44	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8074	20768	33897	1.38	1.0E-106	AI523066.1	EST_HUMAN	ar68e07.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2127732 3' similar to gb:X06233
8527	21219	34361	0.47	1.0E-106	BE387950.1	EST_HUMAN	CALGRANULIN B (HUMAN);
8527	21219	34362	0.47	1.0E-106	BE387950.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
8607	21299	34443	3.64	1.0E-106	AI654123.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
8950	21841	34788	0.58	1.0E-106	AW838831.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
9045	21735	34889	3.28	1.0E-106	AA825307.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
9045	21735	34890	3.28	1.0E-106	AA825307.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
9186	21856	35021	1.28	1.0E-106	AI750447.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
9329	21966	35169	1.8	1.0E-106	AI479569.1	EST_HUMAN	Q05094.69 KD ISLET CELL AUTOANTIGEN;
9329	21966	35170	1.8	1.0E-106	AI479569.1	EST_HUMAN	Q05094.69 KD ISLET CELL AUTOANTIGEN;
9902	22551	35746	1.19	1.0E-106	BE389234.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
9984	22632	35841	1.09	1.0E-106	BF027310.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
9984	22632	35842	1.09	1.0E-106	BF027310.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
10141	22789	36003	6.22	1.0E-106	AA604417.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
10141	22789	36004	6.22	1.0E-106	AA604417.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
10185	22833	36047	1.6	1.0E-106	AW363299.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
10388	23006	36222	0.53	1.0E-106	AL039886.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
10479	23125	36364	2.81	1.0E-106	AL163202.2	NT	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
10812	23495	36730	7.1	1.0E-106	BF032755.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
10812	23495	36731	7.1	1.0E-106	BF032755.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
10985	23668	36925	2.22	1.0E-106	J05200.1	NT	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
10985	23668	36926	2.22	1.0E-106	J05200.1	NT	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
11384	23991	37292	1.91	1.0E-106	BE287385.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
11532	24132	37436	1.35	1.0E-106	BE070882.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
11532	24132	37437	1.35	1.0E-106	BE070882.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
11981	25194		6.77	1.0E-106	AW410405.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
12193	24684	31068	3.32	1.0E-106	BE894488.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12193	24664	31089	3.32	1.0E-106	BE604488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
12408	24791		4.6	1.0E-106	BE695905.1	EST_HUMAN	RC1-CT0249-090800-024-005 CT0249 Homo sapiens cDNA
228	13040		4.42	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
258	13066		1.29	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
607	13385		4.03	1.0E-107	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
616	13394	26028	1.89	1.0E-107	AF155103.1	NT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
866	13635	26305	1.52	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
948	13714	26379	11.55	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1265	14004	26673	0.73	1.0E-107	AB032283.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1562	14309	26986	3.77	1.0E-107	BF087405.1	EST_HUMAN	QV2-HT0540-120900-358-a03 HT0540 Homo sapiens cDNA
1746	14488	27187	1.55	1.0E-107	AF136275.1	NT	Homo sapiens cathepsin Z precursor (CTS2) gene, exon 3
1832	14571	27283	0.99	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
1832	14571	27284	0.99	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2205	14933	27671	0.95	1.0E-107	U13729.1	NT	Human dipeptidyl peptidase IV (CD26) gene, exon 20
2362	15084	27822	1.45	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-180100-001-d03 CN0031 Homo sapiens cDNA
2362	15084	27823	1.45	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-180100-001-d03 CN0031 Homo sapiens cDNA
2535	15250	27991	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
2535	15250	27992	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
3007	15773	28421	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-180100-001-d03 CN0031 Homo sapiens cDNA
3007	15773	28422	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-180100-001-d03 CN0031 Homo sapiens cDNA
3096	15861	28502	2.63	1.0E-107	5902097	NT	Homo sapiens SMT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA
3806	16558	29190	5.14	1.0E-107	AF020671.1	NT	Homo sapiens myotubularin (MTM1) gene, exon 9
5537	18335	31242	0.66	1.0E-107	AW660038.1	EST_HUMAN	EST381115 IMAGE resequences, MAGK Homo sapiens cDNA
5775	18566	31495	3.2	1.0E-107	BE667469.1	EST_HUMAN	601442558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846494 5'
6823	19484	32506	1.45	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
6823	19484	32507	1.45	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
7263	19947	33023	1.42	1.0E-107	AW503913.1	EST_HUMAN	U1HF-BN0-af-c-08-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7263	19947	33024	1.42	1.0E-107	AW503913.1	EST_HUMAN	U1HF-BN0-af-c-08-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7429	20106	33193	1.46	1.0E-107	AI786078.1	EST_HUMAN	W66104.x1 NCI_CGAP_K1411 Homo sapiens cDNA clone IMAGE:2384791 3'
7690	20354	33469	0.6	1.0E-107	AW410961.1	EST_HUMAN	ff06d11.x2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2964524 5'
9287	22041	35213	0.95	1.0E-107	AU122469.1	EST_HUMAN	AU122469 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 5'



Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10603	23297	36537	3.18	1.0E-107	AI392850.1	EST_HUMAN	ig10d06.x1 NCL CGAP_GLL1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICDI P05095 ALPHA-ACTININ 3, NON MUSCULAR ;
10666	23546	36794	14.26	1.0E-107	L49141.1	NT	Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
10880	23580	36807	1.71	1.0E-107	BF66611.1	EST_HUMAN	60212393F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281039 5'
11293	23854	37252	6.66	1.0E-107	BE540550.1	EST_HUMAN	60106858F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452829 5'
11367	23178	36405	5.97	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11367	23178	36406	5.97	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11843	24427	37768	1.36	1.0E-107	4506970	NT	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
11843	24427	37769	1.36	1.0E-107	4506970	NT	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
12043	25328		5.86	1.0E-107	AA001415.1	EST_HUMAN	ze45e01.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:361944 3' similar to contains THR.b1 THR repetitive element ;
935	13702	26367	2.66	1.0E-108	BE296042.1	EST_HUMAN	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:35532348 5'
1242	13991	26657	1.87	1.0E-108	Y18000.1	NT	Homo sapiens NIF2 gene
2428	15149	27883	4.97	1.0E-108	BE206694.1	EST_HUMAN	bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963899 3' similar to gb:X53777 60S RIBOSOMAL PROTEIN L23 (HUMAN); gb:J05277 Mouse hexokinase mRNA, complete cds (MOUSE);
3344	16103	26755	0.71	1.0E-108	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
3344	16103	28756	0.71	1.0E-108	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4136	18678	29507	1.14	1.0E-108	AW664438.1	EST_HUMAN	hi12a11.x1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2972060 3' similar to SW:3BP1_MOUSE P55194 SH3-BINDING PROTEIN 3BP-1 ;
4489	17225	29853	2.18	1.0E-108	U72961.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4489	17225	29854	2.18	1.0E-108	U72961.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4752	17484	30113	1.74	1.0E-108	7661979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
4896	17623	30241	2.8	1.0E-108	AJ008005.1	NT	Homo sapiens PSNT gene, alternative transcript
5591	18191	30883	1.15	1.0E-108	AW384094.1	EST_HUMAN	RCO-H70372-241199-031-d03 HT0372 Homo sapiens cDNA
5440	18239	30954	1.7	1.0E-108	BE869016.1	EST_HUMAN	601444922F1 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:3848860 5'
5440	18239	30955	1.7	1.0E-108	BE869016.1	EST_HUMAN	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
5837	18626		0.99	1.0E-108	AF012623.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20
6048	18828	31790	6.13	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6048	18828	31791	6.13	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriplor
6169	18946	31918	1.27	1.0E-108	AJ133269.1	NT	Homo sapiens caveolin-1/2 locus, Contig1, D7S622, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6265	18697	31650	0.92	1.0E-108	BF334851.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6521	19287	32260	0.63	1.0E-108	AF018706.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
6521	19287	32291	0.63	1.0E-108	AF018706.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
7057	19748	32811	5.82	1.0E-108	11431857	NT	Homo sapiens G protein-coupled receptor, family G, group 5, member B (GPRC5B), mRNA
7339	20020	33098	3.65	1.0E-108	4768333	NT	Homo sapiens delta-6 fatty acid desaturase (FADS6) mRNA
7377	20057	33137	1.16	1.0E-108	BE252607.1	EST_HUMAN	601113471F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354064 5'
7405	20082	33164	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181037 5'
7405	20082	33165	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181037 5'
7963	20658	33658	1.68	1.0E-108	AF083500.1	NT	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8014	20709	33838	0.48	1.0E-108	AW408694.1	EST_HUMAN	U1-HF-BM0-ads-e-12-0-J1.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8014	20709	33839	0.48	1.0E-108	AW408694.1	EST_HUMAN	U1-HF-BM0-ads-e-12-0-J1.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8945	21636	34781	0.75	1.0E-108	AF203977.1	NT	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds
							y35h10.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR:A45773
8984	21674	34823	0.54	1.0E-108	N44974.1	EST_HUMAN	A45773 kelch protein, long form - fruit fly
10565	20368	33481	1.73	1.0E-108	BE535227.1	EST_HUMAN	601058769F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3446381 5'
10731	17911	30597	1.98	1.0E-108	Y12490.1	NT	Homo sapiens mRNA for Golgi-associated microtubule-binding protein (GMAP-210)
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10998	23871	36928	1.39	1.0E-108	AF223391.1	NT	
11239	23902	37191	3.82	1.0E-108	AW066165.1	EST_HUMAN	EST378258 IMAGE resequences, MAGI Homo sapiens cDNA
11284	23955	37253	2.2	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11294	23955	37254	2.2	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11343	24033		1.67	1.0E-108	11441465	NT	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
11405	24054	37359	1.88	1.0E-108	D63539.1	NT	Homo sapiens COL4A6 gene for a6(IV) collagen, exon 23
12204	24671	31072	2.41	1.0E-108	AK024447.1	NT	Homo sapiens mRNA for FLJ00037 protein, partial cds
12583	24908		8.32	1.0E-108	BF346356.1	EST_HUMAN	602018571F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4154287 5'
41	12863	25488	0.87	1.0E-109	AW803116.1	EST_HUMAN	IL2-JM0077-260400-079-D06 UM0077 Homo sapiens cDNA
62	12890	25523	0.97	1.0E-109	D86974.1	NT	Human mRNA for KIAA0220 gene, partial cds
220	13031	25667	1.59	1.0E-109	11438391	NT	Homo sapiens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
454	13240	25878	5.59	1.0E-109	4507712	NT	Homo sapiens tetrapeptide repeat domain 2 (TTC2) mRNA
584	13364	25992	26.8	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
584	13364	25993	26.8	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1180	13933	26598	10.97	1.0E-109	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1181	13933	26598	4	1.0E-109	M28698.1	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds
1533	14280	26967	3.31	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
1533	14280	26968	3.31	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
1867	14605	27316	3.3	1.0E-109	D13843.2	NT	Homo sapiens mRNA for KIAA0018 protein, partial cds
2237	14965	27705	1.78	1.0E-109	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2248	14976	27714	1.89	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
2628	15340	28084	3.98	1.0E-109	AI022328.1	EST_HUMAN	ow85a01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN.;
2628	15340	28085	3.98	1.0E-109	AI022328.1	EST_HUMAN	ow85a01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN.;
2629	15341	28086	2.07	1.0E-109	4504206	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
3054	15820	28464	2.22	1.0E-109	N85190.1	EST_HUMAN	J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN ZNF43
3383	16142	28799	3.14	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA
3383	16142	28800	3.14	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA
3508	18264	28918	1.21	1.0E-109	AF240698.1	NT	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3548	18303	28953	0.9	1.0E-109	M37928.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3548	18303	28954	0.9	1.0E-109	M37928.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3823	16675	29357	2.59	1.0E-109	BE146144.1	EST_HUMAN	MR0-HT0209-110400-108-a04 HT0209 Homo sapiens cDNA
3974	16723	29358	1.42	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0609 protein, partial cds
3974	16723	29358	1.42	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0609 protein, partial cds
4127	16869	29497	3.88	1.0E-109	AI655417.1	EST_HUMAN	ts98a06.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP:F53A2.8
4141	16883	29512	1.02	1.0E-109	AA682274.1	EST_HUMAN	nu33c12.s1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:1218262 3' similar to SW:GTT2_HUMAN
4141	16883	29513	1.02	1.0E-109	AA682274.1	EST_HUMAN	nu33c12.s1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:1218262 3' similar to SW:GTT2_HUMAN
4371	17109	29744	2.48	1.0E-109	4504208	NT	P30712 GLUTATHIONE S-TRANSFERASE THETA 2;
4561	17296	29923	1.69	1.0E-109	7682083	NT	P30712 GLUTATHIONE S-TRANSFERASE THETA 2;
4867	17595	30218	1.27	1.0E-109	R15400.1	EST_HUMAN	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
4992	17715	30320	1.39	1.0E-109	BE293673.1	EST_HUMAN	ya48a06.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:53057 5'
4992	17715	30321	1.39	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
5167	17976	30534	0.81	1.0E-109	AU137282.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
5179	17988	30503	1.06	1.0E-109	BF673718.1	EST_HUMAN	AU137282 PLACE1 Homo sapiens cDNA clone PLACE1006159 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5230	18036	30662	3.09	1.0E-109	5174622	NT	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
5520	18318		1.11	1.0E-109	BE179356.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
5538	25078	31560	0.64	1.0E-109	BF379688.1	EST_HUMAN	CM1-UT0038-060900-399-r07 UT0038 Homo sapiens cDNA
5907	18318		1.8	1.0E-109	BE179356.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
7140	19827	32896	0.97	1.0E-109	AB049811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
7484	20138	33230	3.99	1.0E-109	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
7468	20140	33232	5.28	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7466	20140	33233	5.28	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7674	20338	33451	0.67	1.0E-109	BE263297.1	EST_HUMAN	601145017F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160229 5'
8073	20787	33896	1.48	1.0E-109	AL049784.1	NT	Novel human gene mapping to chromosome 13
8183	20877	34014	0.99	1.0E-109	AW749130.1	EST_HUMAN	PMAO-BT0340-091289-002-e05 BT0340 Homo sapiens cDNA
8555	21247		2.77	1.0E-109	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
8533	21325	34466	8.42	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8633	21325	34467	8.42	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8878	21587	34711	0.58	1.0E-109	BE145672.1	EST_HUMAN	IL0-HT0205-071199-142-g01 HT0205 Homo sapiens cDNA
9137	21825	34990	1.91	1.0E-109	HB4860.1	EST_HUMAN	ys9g08.r1 Soares retina N2b5HR Homo sapiens cDNA clone IMAGE:222110 5' similar to SP-A53491
9250	21929	35101	0.63	1.0E-109	BE397068.1	EST_HUMAN	A53491 BUMETANIDE-SENSITIVE NA-K-Cl COTRANSPORTER - SPIN1 ;
9260	21929	35102	0.63	1.0E-109	BE397068.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
9384	22046	35218	2.64	1.0E-109	F06604.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
10673	23364	36606	1.71	1.0E-109	BE540909.1	EST_HUMAN	HSC1EC121 normalized infant brain cDNA Homo sapiens cDNA clone c-1ec12
10673	23364	36607	1.71	1.0E-109	BE540909.1	EST_HUMAN	601053030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
10710	23399	36638	15.79	1.0E-109	BF694831.1	EST_HUMAN	601053030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
10888	23568	36818	1.55	1.0E-109	7662279	NT	602080724F2 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245341 5'
10888	23568	36819	1.55	1.0E-109	7662279	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
11069	23739	37013	1.8	1.0E-109	AU121370.1	EST_HUMAN	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
11342	24032	37336	2.72	1.0E-109	4502838	NT	AU121370 HEMBBT1 Homo sapiens cDNA clone HEMBB1002690 5'
11383	23990	37291	11.6	1.0E-109	W16510.1	EST_HUMAN	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
11685	24280	37602	1.46	1.0E-109	11418618	NT	z508512.r1 Soares fetal lung Nbl-L19W Homo sapiens cDNA clone IMAGE:301439 5' similar to
11848	24432	37773	1.27	1.0E-109	BF339540.1	EST_HUMAN	PIR-S43989 S43989 p54-beta stress-activated protein kinases - rat ;
11848	24432	37774	1.27	1.0E-109	BF339540.1	EST_HUMAN	Homo sapiens single-minded (Drosophila) homolog 1 (SIM1), mRNA
12112	14976	27714	2.1	1.0E-109	Y17123.1	NT	602039003F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4186753 5'
12328	14976	27714	2.73	1.0E-109	Y17123.1	NT	602039003F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4186753 5'

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12443	24873	31047	2.08	1.0E-109	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
3	12831	25444	1.85	1.0E-110	7549804	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
36	12884	25482	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
36	12884	25483	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
79	12905	25543	0.7	1.0E-110	C04498.1	EST_HUMAN	C04498 Human heart cDNA (Yakamura) Homo sapiens cDNA clone 3NHC3457
107	12831	25444	2.26	1.0E-110	7549804	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
514	13298	25930	1.54	1.0E-110	U84550.1	NT	Human dystrobrevin (DTN) gene, exon 20
1157	13912	26575	0.8	1.0E-110	5031620	NT	Homo sapiens calcitonin receptor-like (CALGRL) mRNA
1256	14005	26874	0.8	1.0E-110	AB032263.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1914	14651	27361	1.19	1.0E-110	BE379477.1	EST_HUMAN	601237645F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609683 5'
2051	14784		1.6	1.0E-110	BF508996.1	EST_HUMAN	U1-H-B14-aos-b-05-0-U1.st NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
2845	15613		1	1.0E-110	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
3189	15952	28603	1.49	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
3189	15952	28604	1.49	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4031	16776	29407	1.09	1.0E-110	BE018558.1	EST_HUMAN	bb82a05.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048848 5' similar to TR:O60312 O60312 KIAA0568 PROTEIN ;
4591	17328	29951	2.14	1.0E-110	AJ017213.1	EST_HUMAN	ou32b10.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627963 3' similar to SW:N121_RAT_P92591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 ;
4606	17341	29972	3.9	1.0E-110	AU117812.1	EST_HUMAN	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
4916	17844		2.7	1.0E-110	7862441	NT	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
5212	18020	30642	2.63	1.0E-110	BE299406.1	EST_HUMAN	601118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028538 5'
5639	18494	31347	0.8	1.0E-110	BE921069.1	EST_HUMAN	601493677F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895795 5'
5656	18451	31364	8.61	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5656	18451	31365	8.61	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6817	25098	32395	8.08	1.0E-110	M55112.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 7
7002	19694	32746	0.8	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7002	19694	32747	0.8	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7224	19909	32983	0.74	1.0E-110	AJ560289.1	EST_HUMAN	bt12a08.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN
7325	20008	33085	6.9	1.0E-110	AV714276.1	EST_HUMAN	P50549 ETS TRANSLOCATION VARIANT 1 ;
7325	20008	33086	6.9	1.0E-110	AV714276.1	EST_HUMAN	AV714276 DCB Homo sapiens cDNA clone DCBCE01 5'
7355	20036	33114	3.21	1.0E-110	AB020675.1	NT	AV714276 DCB Homo sapiens cDNA clone DCBCE01 5'
7469	20143	33235	0.83	1.0E-110	AU137923.1	EST_HUMAN	Homo sapiens mRNA for KIAA0868 protein, partial cds
							AU137923 PLACE1 Homo sapiens cDNA clone PLACE1007511 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9234	21913	35087	7.88	1.0E-110	BE302594.1	EST_HUMAN	ba6801.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805581 5' similar to TR:O77258 O77258
9476	22129	35308	2.39	1.0E-110	AW838394.1	EST_HUMAN	EG:114D9.2 PROTEIN.;
10221	22869	36081	3.45	1.0E-110	11432732	NT	QV2-LT0053-020400-119-e04 LT0053 Homo sapiens cDNA
10648	23339	36578	3.64	1.0E-110	Y12337.1	NT	Homo sapiens galactokinase 2 (GALK2), mRNA
10887	23567	36816	3.75	1.0E-110	BE734357.1	EST_HUMAN	[H.sapiens mRNA for myofibrillar dystrophy protein kinase like protein
10887	23567	36817	3.75	1.0E-110	BE734357.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
11420	23187	36418	2.45	1.0E-110	AA446529.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
11939	24498		4.54	1.0E-110	BE987218.1	EST_HUMAN	zw67g02.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781298 5' similar to TR:G1145816
12061	24576		11.71	1.0E-110	AW062258.1	EST_HUMAN	G1145816 FKBP54;
12348	24720		1.44	1.0E-110	AB011399.1	NT	601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924548 5'
12348	24753		1.35	1.0E-110	AI127761.1	EST_HUMAN	IL0-BT0163-040898-094-g10 BT0163 Homo sapiens cDNA
12429	25339		3.25	1.0E-110	BF364548.1	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
12701	14784		1.48	1.0E-110	BF508896.1	EST_HUMAN	qc31c12.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1711222 3'
170	12983		10.84	1.0E-111	U43701.1	NT	PM3-NN1082-140600-006-f12 NN1082 Homo sapiens cDNA
191	13004	25645	1.05	1.0E-111	4759807	NT	UI-H-B14-aos-b-05-Q-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
718	13492		2.38	1.0E-111	BF035327.1	EST_HUMAN	Human ribosomal protein L23a mRNA, complete cds
726	13500	26164	5.13	1.0E-111	8393092	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
908	13673	26338	3.82	1.0E-111	M25142.1	NT	601456531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
1624	14371	27060	1.43	1.0E-111		NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
2234	14962	27701	1.02	1.0E-111	AF036126.1	NT	Human cardiac alpha-myosin heavy chain (MYH6), gene, exons 32 to 34
4150	16892	28622	1.08	1.0E-111		NT	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
4295	17034	29862	4.38	1.0E-111	K02268.1	NT	Homo sapiens collagen type IX alpha 1 chain (COL9A1), gene, exons 29, 30, 31, and 32
4691	17425	30057	8.36	1.0E-111		NT	Homo sapiens DKFZP434D156 protein [DKFZP434D156], mRNA
5544	18341	31249	1.09	1.0E-111	BE867909.1	EST_HUMAN	Human enkephalin B (enkb) gene, exon 4 and 3' flank and complete cde
5942	18724	31983	1.98	1.0E-111	A1344679.1	EST_HUMAN	Homo sapiens phosphotyrase kinase, alpha 1 (muscle) (PHKA1), mRNA
6580	19343	32357	1.16	1.0E-111	AL040762.1	EST_HUMAN	601443690F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847655 5'
6709	19624	32668	1.06	1.0E-111	AW294648.1	EST_HUMAN	RELATED PROTEIN RAL-A (HUMAN);
7347	20028	33104	2.99	1.0E-111	BF366828.1	EST_HUMAN	qp09g12.x1 NCI_CGAP_K145 Homo sapiens cDNA clone IMAGE:1017574 3' similar to gb:M28693 RAS-
							DKFZp434C1815.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1815 5'
							UI-H-BW0-ail-d-03-Q-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2726525 3'
							IL2-NT0101-280700-114-E03 NT0101 Homo sapiens cDNA
							wf68d01.x1 NCI_CGAP_K1d12 Homo sapiens cDNA clone IMAGE:2398465 3' similar to gb:J04813
7433	20110	33198	0.82	1.0E-111	A1761228.1	EST_HUMAN	CYTOCHROME P450 11A5 (HUMAN);

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7514	20185	33279	0.6	1.0E-111	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
7993	20688	33815	0.73	1.0E-111	AA278868.1	EST_HUMAN	zs79g03.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
7993	20688	33818	0.73	1.0E-111	AA278868.1	EST_HUMAN	G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR. ;
8088	20782	33912	0.62	1.0E-111	11431896	NT	zs79g03.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
8139	20833	33967	3.28	1.0E-111	U66533.1	NT	G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR. ;
8579	21271	34409	0.79	1.0E-111	11420516	NT	Homo sapiens protein x 0001 (LOC51185), mRNA
8674	21366	34513	0.73	1.0E-111	AK024453.1	NT	Human beta4-integrin (ITGB4) gene, exon 13
8707	21399		1.57	1.0E-111	AF177987.1	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
8708	21400		8.65	1.0E-111	BF214902.1	EST_HUMAN	Homo sapiens mRNA for FLJ00045 protein, partial cds
8782	21474	34620	12.9	1.0E-111	X17033.1	NT	Homo sapiens core sodium-calcium potassium exchanger splice variant (NCKX) mRNA, complete cds
8782	21474	34621	12.9	1.0E-111	X17033.1	NT	601847132F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4078303 5'
8986	21676	34625	2.8	1.0E-111	AF091395.1	NT	Human mRNA for integrin alpha-2 subunit
9217	21896	35066	0.49	1.0E-111	BF333210.1	EST_HUMAN	Human mRNA for integrin alpha-2 subunit
10052	22700	35917	3.21	1.0E-111	AA504160.1	EST_HUMAN	Homo sapiens Tric isoform mRNA, complete cds
10080	22728		2.4	1.0E-111	D10083.1	NT	QV2-BT0817-270900-398-e06 BT0817 Homo sapiens cDNA
10172	22820	36038	5.24	1.0E-111	AA131243.1	EST_HUMAN	aa58g02.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825170 3' similar to gb:L09235
10973	23649	36902	4.25	1.0E-111	U68159.1	NT	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);
11465	24068	37376	2.74	1.0E-111	A1751071.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
11897	24464	37802	3.72	1.0E-111	11417901	NT	z31f01.r1 Soares_pregnant_uterus_NBHPU Homo sapiens cDNA clone IMAGE:503545 5'
12424	24800	31040	1.51	1.0E-111	AV708482.1	EST_HUMAN	Human thrombopoietin receptor (MPL) gene, exons 1,2,3,4,5 and 6
12672	17914	30599	1.56	1.0E-111	AB036356.1	NT	cn07a11.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NH7BC_cn07a11 random
594	13372	26001	1.29	1.0E-112	4501854	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
598	13374	26003	12.55	1.0E-112	U29103.1	NT	AV708482 ADC Homo sapiens cDNA clone ADCAO808 5'
596	13374	26004	12.55	1.0E-112	U29103.1	NT	Homo sapiens mRNA for neurxin 1-alpha protein, complete cds
617	13395	26029	1.86	1.0E-112	BF509039.1	EST_HUMAN	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
617	13395	26030	1.86	1.0E-112	BF509039.1	EST_HUMAN	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
981	13746	26408	8.84	1.0E-112	AF157623.1	NT	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
1040	13800	26458	2.2	1.0E-112	P52742	SWISSPROT	UI-H-B14-act-g-04-UJ.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3088023 3'
							UI-H-B14-act-g-04-UJ.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3088023 3'
							Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
							ZINC FINGER PROTEIN 135

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1679	14423	27117	4.39	1.0E-112	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
1679	14423	27118	4.39	1.0E-112	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2194	14923	27657	1.37	1.0E-112	A1766925.1	EST_HUMAN	wj90f06.x1 NCL CGAP_K12 Homo sapiens cDNA clone IMAGE:2400611 3'
2512	15229	27969	1.1	1.0E-112	BE86859.1	EST_HUMAN	601442674F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846858 5'
3076	15842		1.15	1.0E-112	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3355	16115	28770	0.7	1.0E-112	A1826511.1	EST_HUMAN	wk45b12.x1 NCL CGAP_P122 Homo sapiens cDNA clone IMAGE:2418335 3' similar to gb:M81650_ma1
3864	16614	29253	0.74	1.0E-112	BE076073.1	EST_HUMAN	SEMNOCGELIN 1 PROTEIN PRECURSOR (HUMAN);
4565	17300	29927	1.39	1.0E-112	4504116	NT	MR2-BT0590-Q90300-113-009 BT0590 Homo sapiens cDNA
4704	17437	30068	4.9	1.0E-112	AB037832.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4704	17437	30069	4.9	1.0E-112	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
5581	18378	31291	40.71	1.0E-112	N46046.1	EST_HUMAN	Homo sapiens mRNA for KIAA1411 protein, partial cds
5985	18766	31730	1.04	1.0E-112	AF149773.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
6155	18932	31899	1.43	1.0E-112	BE741666.1	EST_HUMAN	Y35007.1 Soares melanocyte 2Nbl-HM Homo sapiens cDNA clone IMAGE:273229 5'
6369	19138	32134	0.68	1.0E-112	BE7672815.1	EST_HUMAN	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6539	19304	32308	0.71	1.0E-112	BE273103.1	EST_HUMAN	601594717F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948557 5'
6539	19304	32309	0.71	1.0E-112	BE273103.1	EST_HUMAN	602152649F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293420 5'
6741	19575	32607	1.13	1.0E-112	BE574235.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
7236	19921	32995	1.87	1.0E-112	11416777	NT	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
7236	19921	32996	1.87	1.0E-112	11416777	NT	602131405F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5'
7729	25120	33507	0.56	1.0E-112	BF213368.1	EST_HUMAN	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
8093	20787	33919	1.73	1.0E-112	AU118051.1	EST_HUMAN	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
8856	21647	34694	2.09	1.0E-112	BE867635.1	EST_HUMAN	601845089F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070302 5'
8868	21647	34695	2.09	1.0E-112	BE867635.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5'
9783	22444	35849	2.15	1.0E-112	BF111413.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
10677	23368	36611	2.86	1.0E-112	AV863327.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
10868	23548	36796	3.37	1.0E-112	AJ249900.1	NT	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
11040	23711	36981	1.92	1.0E-112	BE280478.1	EST_HUMAN	780907.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3623020 3' similar to TR:Q9VWV35 Q9VWV35 CG8743 PROTEIN ;
11109	23779	37053	1.59	1.0E-112	A1792803.1	EST_HUMAN	MR3-SN0009-100400-108-b12 SN0009 Homo sapiens cDNA
							Homo sapiens mRNA for secreted modular calcium-binding protein (smoc1 gene)
							601155323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138989 5'
							qk24c08.y6 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES ;



Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11109	23779	37054	1.59	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y6 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES:
11139	23808	37085	8.8	1.0E-112	AW377670.1	EST_HUMAN	PM0-G10237-141098-001-n02 G10237 Homo sapiens cDNA
11810	24399	37734	1.92	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y6 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES:
11810	24399	37735	1.92	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y6 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES:
725	13499	26152	5.37	1.0E-113	AJ365586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
725	13499	26153	5.37	1.0E-113	AJ365586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
921	13688	26352	7.99	1.0E-113	M11965.1	NT	Human X-linked phosphoglycerate kinase gene, exon 8
1532	14279	26966	2.66	1.0E-113	AJ365586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
1932	15524	27382	1.44	1.0E-113	AF240775.1	NT	Homo sapiens eIF4E-translocator mRNA, complete cds
2088	14820	27551	1.02	1.0E-113	BF515218.1	EST_HUMAN	UJ-H-BW1-ant-f-03-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082876 3'
2458	15174	27913	26.34	1.0E-113	AJ006976.1	NT	Homo sapiens PTP gene
3127	19892	28536	1.92	1.0E-113	AJ223948.1	NT	Homo sapiens mRNA for putative RNA helicase, 3' end
4966	17691	30300	0.91	1.0E-113	D85606.1	NT	Homo sapiens gene for cholesterylkinin type-A receptor, complete cds
5008	17731	30335	2.16	1.0E-113	5453562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5008	17731	30336	2.16	1.0E-113	5453562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5165	25178		2.97	1.0E-113	BE780858.1	EST_HUMAN	601469465F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872536 5'
5405	18205	30909	7.86	1.0E-113	AU127214.1	EST_HUMAN	AU127214 NT2RP2 Homo sapiens cDNA clone NT2RP2000907 5'
5832	18621	31554	4.17	1.0E-113	AU140291.1	EST_HUMAN	AU140291 PLACE2 Homo sapiens cDNA clone PLACE2000274 5'
5861	18648	31569	1.47	1.0E-113	AF016535.1	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
5979	18761	31725	2.62	1.0E-113	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA
6064	18843	31806	0.98	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6064	18843	31807	0.98	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6224	18998	31974	0.8	1.0E-113	6006002	NT	Homo sapiens glutathione receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
6224	18998	31975	0.8	1.0E-113	6006002	NT	Homo sapiens glutathione receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7221	19906	32979	0.78	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5'
7221	19906	32980	0.78	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5'
7573	20242	33347	0.56	1.0E-113	AW959960.1	EST_HUMAN	EST1371030 IMAGE resequences, IMAGE Homo sapiens cDNA
8790	21482	34628	0.46	1.0E-113	8922819	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA

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Table 4

## Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8992	21692	34830	3.06	1.0E-113	BE382842.1	EST_HUMAN	601287709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
8992	21692	34831	3.06	1.0E-113	BE382842.1	EST_HUMAN	601287709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
9301	21968		0.93	1.0E-113	BE772967.1	EST_HUMAN	RC1-FT0134-280600-021-002 FT0134 Homo sapiens cDNA
9730	22381	35583	1.4	1.0E-113	11429367	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
9830	22481	35683	0.45	1.0E-113	M21535.1	NT	Human erg protein (ets-related gene) mRNA, complete cds
9950	22598	35802	0.81	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9950	22598	35803	0.81	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10514	23160	36386	0.81	1.0E-113	AW500517.1	EST_HUMAN	UI-HF-BNO-ekj-b-10-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077322 5'
10515	23161	36387	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'
10516	23161	36388	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'
11067	23737	37011	1.83	1.0E-113	AW500519.1	EST_HUMAN	UI-HF-BNO-ekj-b-12-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077326 5'
11076	23746	37019	2.84	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327
11076	23746	37020	2.84	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327
11181	18998	31974	1.39	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11181	18998	31975	1.39	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11227	23890	37177	2.81	1.0E-113	BE292968.1	EST_HUMAN	601105529F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988366 5'
11481	24082	37393	1.32	1.0E-113	AA580720.1	EST_HUMAN	nc80b03.r1 NCI_CGAP_GC1 Homo sapiens cDNA clone IMAGE:787069 5' similar to SW:FEN1_HUMAN
11481	24082	37394	1.32	1.0E-113	AA580720.1	EST_HUMAN	P39748 FLAP ENDONUCLEASE-1 ;
630	13409	26045	6.8	1.0E-114	T70551.1	EST_HUMAN	yd15c01.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108288 3' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN); contains Alu repetitive element;
1049	13808	26468	1.7	1.0E-114	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1290	14039	26712	5.09	1.0E-114	7657329	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1697	14413	27104	4.27	1.0E-114	6679073	NT	Homo sapiens nucleoporin-like protein 1 (NLP_1), mRNA
2807	12871	25491	1.28	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
2807	12871	25492	1.28	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3128	15893	28537	2.75	1.0E-114	X04086.1	NT	Human gene for catalase (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13
3169	15932	28581	1.02	1.0E-114	BF206374.1	EST_HUMAN	601869832F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100214 5'
3997	16745	29377	2.61	1.0E-114	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4358	17096	29731	0.72	1.0E-114	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rac) mRNA, complete cds

Table 4  
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5064	17783	30400	1.05	1.0E-114	BE275324.1	EST_HUMAN	601122173F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346099 5'
5315	18119	30775	1.26	1.0E-114	4506880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5315	18119	30776	1.26	1.0E-114	4506880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5508	18308	31207	0.97	1.0E-114	9257201	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), transcript variant 2, mRNA
6134	18912	31881	0.64	1.0E-114	Z26298.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 20
6898	17974	30531	0.62	1.0E-114	4759163	NT	Homo sapiens sparcoctonecin, cwoy and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
6977	19458		0.95	1.0E-114	AB041533.1	NT	Homo sapiens HOMOGT-1 mRNA for sperm antigen, complete cds
7139	19826	32694	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7139	19826	32695	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7182	19868	32941	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7182	19868	32942	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7792	20487	33610	2.62	1.0E-114	4557600	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
8067	20761	33889	1.92	1.0E-114	A1363139.1	EST_HUMAN	qy68d06.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8067	20761	33890	1.92	1.0E-114	A1363139.1	EST_HUMAN	qy68d06.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8602	21294	34437	3.81	1.0E-114	U63041.1	NT	Human neural cell adhesion molecule GD66 mRNA, complete cds
8665	21357	34505	6.93	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
8665	21357	34506	6.93	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
9081	21770	34933	0.49	1.0E-114	BF109832.1	EST_HUMAN	7169g12.x1 Soares NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3526847 3' similar to TR:Q8UHN6 Q8UHN6 TRANSMEMBRANE PROTEIN 2.
9314	21981		6.83	1.0E-114	AW327455.1	EST_HUMAN	dc03f05.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
9363	20433	33555	2.8	1.0E-114	AF077754.1	NT	Homo sapiens tyrosine kinase pp60c-src (SRC) gene, exon 12 and partial cds
9448	22125		1.03	1.0E-114	M13536.1	NT	Human ceruloplasmin mRNA
10039	22687	35905	1.08	1.0E-114	BE970004.1	EST_HUMAN	601449752F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3853500 5'
10061	22709	35927	1.5	1.0E-114	AL163227.2	NT	Homo sapiens chromosome 21 segment H521C027
10439	23085	36313	0.7	1.0E-114	BE171984.1	EST_HUMAN	MRC-HT0559-250200-002-407 HT0559 Homo sapiens cDNA
10687	23378		3.15	1.0E-114	BE302666.1	EST_HUMAN	ba73g12.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2906086 5' similar to gb:U17206 40S RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
10789	23472	36714	1.71	1.0E-114	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced

Table 4

## Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10789	23472	36715	1.71	1.0E-114	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11145	23812	37094	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11145	23812	37095	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11766	24386	37719	1.7	1.0E-114	4738673	NT	Homo sapiens LIM HOX gene 2 (LHX2) mRNA
11834	24418	37759	1.32	1.0E-114	11526317	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1) mRNA
12334	25402		3.42	1.0E-114	11418041	NT	Homo sapiens TNF-inducible protein OG12-1 (CG12-1) mRNA
12577	24902	30998	4.93	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (J1042K10.2) mRNA
12577	24902	30999	4.93	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (J1042K10.2) mRNA
21	12849	25464	2.89	1.0E-115	4758111	NT	Homo sapiens HLA-B associated transcript-1 (D6S81E) mRNA
127	12942	25585	2.03	1.0E-115	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
131	12948		2.33	1.0E-115	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
286	13092	25733	2.23	1.0E-115	AW804759.1	EST_HUMAN	QV4-UM0094-300300-156-508 UM0094 Homo sapiens cDNA
523	13307	25939	0.99	1.0E-115	AI339206.1	EST_HUMAN	q06701.x1 NCL CGAP GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:O00538 O00538
623	13307	25940	0.99	1.0E-115	AI339206.1	EST_HUMAN	TTF-1 INTERACTING PEPTIDE 5:
768	13541	28201	1.36	1.0E-115	5174702	NT	TTF-1 INTERACTING PEPTIDE 5:
769	13541	28202	1.36	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
771	13543	28204	40.4	1.0E-115	4503794	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1552	14298	26985	1.26	1.0E-115	AF229180.1	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1552	14298	26986	1.26	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1833	14572	27285	1.01	1.0E-115	U78027.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
2078	14810	27541	0.96	1.0E-115	AB007902.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2298	15023	27758	2.13	1.0E-115	AF231124.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
2855	15623		1.39	1.0E-115	AW804759.1	EST_HUMAN	Homo sapiens testican-1 mRNA, complete cds
3113	15678	28518	6.22	1.0E-115	AJ245922.1	NT	QV4-UM0094-300300-156-508 UM0094 Homo sapiens cDNA
3113	15678	28519	6.22	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3465	16221	28875	1.6	1.0E-115	AJ277892.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
4021	16767	29397	3.67	1.0E-115	AB002348.2	NT	Homo sapiens partial TTN gene for titin
4369	17107	29742	3.27	1.0E-115	6912659	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4403	17140	29768	3.6	1.0E-115	4758279	NT	Homo sapiens sir2-like 3 (SIRT3), mRNA
4828	17363	29996	2.64	1.0E-115	AL096857.1	NT	Homo sapiens EphA4 (EPHA4) mRNA
							Novel human mRNA from chromosome 1, which has similarities to BAT2 genes

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4828	17363	29997	2.64	1.0E-115	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4848	17578	30201	3.51	1.0E-115	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
4848	17578	30202	3.51	1.0E-115	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
5263	18099	30698	1.62	1.0E-115	AW970335.1	EST_HUMAN	EST382416 MAGE resequences, MAGK Homo sapiens cDNA
5338	18141	30802	0.78	1.0E-115	BF665387.1	EST_HUMAN	602119346F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276738 5'
5454	18253	31143	1.96	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5454	18253	31144	1.96	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5604	18400	31313	1.34	1.0E-115	AI928799.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb:L07807
5604	18400	31314	1.34	1.0E-115	AI928799.1	EST_HUMAN	DYNAMIN-1 (HUMAN);
6188	18945	31916	0.97	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
6188	18945	31917	0.97	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
6302	19075	32061	9.84	1.0E-115	11426038	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63436), mRNA
6434	19202	32198	2.04	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product: Helicase (KIAA0054), mRNA
6434	19202	32199	2.04	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product: Helicase (KIAA0054), mRNA
6835	19497	32521	0.83	1.0E-115	T86774.1	EST_HUMAN	yd8b08.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115095 5' similar to
7178	19864	32935	1.54	1.0E-115	AI076698.1	EST_HUMAN	SP-DPOG_YEAST P15801 DNA POLYMERASE GAMMA ;
7178	19864	32936	1.54	1.0E-115	AI076698.1	EST_HUMAN	oz31a06.x1 Soares_tet1_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
7308	19991	33068	8.22	1.0E-115	AB023212.1	NT	oz31a06.x1 Soares_tet1_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
8060	20754	33885	13.71	1.0E-115	BE830187.1	EST_HUMAN	Homo sapiens mRNA for KIAA0995 protein, partial cds
8060	20754	33886	13.71	1.0E-115	BE830187.1	EST_HUMAN	RO6-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA
8712	21404	34548	2.15	1.0E-115	11434772	NT	RO6-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA
9675	22327	35522	0.6	1.0E-115	BF382029.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 4B (EIF4B), mRNA
9899	22549	35743	2.25	1.0E-115	AB002336.1	NT	601816352F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4050108 5'
9899	22549	35744	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
10418	23064	36284	1	1.0E-115	A1221878.1	EST_HUMAN	Human mRNA for KIAA0338 gene, partial cds
10418	23064	36285	1	1.0E-115	A1221878.1	EST_HUMAN	qg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10426	23072	36293	0.82	1.0E-115	AI524687.1	EST_HUMAN	qg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10617	23310	36549	7.62	1.0E-115	AW571544.1	EST_HUMAN	th12a07.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2118036 3' similar to TR:O16129 O16129
10869	23549	36797	1.33	1.0E-115	9810279	NT	PHENYLALANINE TRNA SYNTHETASE ;
							xx32f08.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2839239 3' similar to SW:CAYP_CANFA
							P10463 CALYPTOSINE ;
							Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11225	23888	37174	1.54	1.0E-115	BE045890.1	EST_HUMAN	hs54c10.x1 NCL CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ;
11225	23888	37175	1.54	1.0E-115	BE045890.1	EST_HUMAN	hs54c10.x1 NCL CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ;
11374	23981	37281	2.27	1.0E-115	4502528	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) mRNA
11775	24366	37699	2.63	1.0E-115	BE255549.1	EST_HUMAN	601111744F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352379 5'
11842	24426	37767	1.83	1.0E-115	AW984376.1	EST_HUMAN	QV3-OT0085-290300-137-h12 OT0085 Homo sapiens cDNA Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
11920	24481		2.16	1.0E-115	AF240786.1	NT	601121347F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2988875 5'
559	13341	25969	1.98	1.0E-116	BE275502.1	EST_HUMAN	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
783	13555	26216	2.21	1.0E-116	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
839	13609		1.76	1.0E-116	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
1990	14726	27447	2.55	1.0E-116	5174478	NT	Homo sapiens pericentriolar (PCNT) mRNA
1990	14726	27448	2.55	1.0E-116	5174478	NT	Homo sapiens pericentriolar (PCNT) mRNA
2090	15585	27552	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2090	15585	27553	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2305	15030	27767	1.95	1.0E-116	5453941	NT	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPEF1) mRNA Human olfactory receptor pseudo_olfr17-201-1 (OR17-201-1) gene, olfactory receptor olfr17-32 (OR17-32) gene and olfactory receptor pseudo_olfr17-01 (OR17-01) pseudogene, complete cds
2340	15063		1.36	1.0E-116	U78308.1	NT	Homo sapiens cDNA clone IMAGE:3914600 5'
2458	15176	27915	2.84	1.0E-116	AB018333.1	NT	Homo sapiens cDNA clone IMAGE:3914600 5'
2738	15533	28183	1.53	1.0E-116	BE889256.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:3914600 5'
3171	15934	28582	4.87	1.0E-116	L77570.1	NT	Homo sapiens cDNA clone IMAGE:3914600 5'
3171	15934	28583	4.87	1.0E-116	L77570.1	NT	Homo sapiens cDNA clone IMAGE:3914600 5'
4345	17084	29713	2.43	1.0E-116	5031854	NT	Homo sapiens cDNA clone IMAGE:3914600 5'
4803	17534	30156	1.57	1.0E-116	AB070968.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:3914600 5'
5197	18005	30627	0.87	1.0E-116	A1302082.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:3914600 5'
5889	18674	31619	4.4	1.0E-116	W42822.1	EST_HUMAN	zsc24d07.1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:323245 5' similar to SW:MDHM_MOUSE_P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR ;
6117	18895	31862	1.8	1.0E-116	AB046856.1	NT	Homo sapiens cDNA clone IMAGE:3914600 5'
6117	18895	31863	1.8	1.0E-116	AB046856.1	NT	Homo sapiens cDNA clone IMAGE:3914600 5'
6184	18961	31834	0.76	1.0E-116	BE408097.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:3914600 5'
6421	19189		1.55	1.0E-116	BE158133.1	EST_HUMAN	MR2-HT0378-210200-102-504 HT0378 Homo sapiens cDNA

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6844	19544	32572	1.19	1.0E-116	C02944.1	EST_HUMAN	C02944 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHC0397
7102	19790	32855	5.74	1.0E-116	AV716314.1	EST_HUMAN	AV716314 DCB Homo sapiens cDNA clone DCB0008 5'
8267	20961	34101	1.37	1.0E-116	AA354258.1	EST_HUMAN	EST62685 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8267	20961	34102	1.37	1.0E-116	AA354256.1	EST_HUMAN	EST62685 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8378	21071	34209	0.98	1.0E-116	A1904151.1	EST_HUMAN	CM-BT043-090289-075 BT043 Homo sapiens cDNA
8836	21828	34674	1.66	1.0E-116	BE565507.1	EST_HUMAN	601338289F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680680 5'
8997	21887	34837	1.61	1.0E-116	A1216352.1	EST_HUMAN	qh09c05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844168 3' similar to gp.X53741_ma1 FIBULIN-1, ISOFORM A, PRECURSOR (HUMAN);
8573	22226	35411	1.52	1.0E-116	11418646	NT	Homo sapiens laminin, alpha 2 (marcosin, congenital muscular dystrophy) (LAMA2), mRNA
10170	22818	36036	0.74	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-I) gene
10170	22818	36037	0.74	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-I) gene
10246	22894	36104	0.78	1.0E-116	BE158913.1	EST_HUMAN	QV4-HT0401-281298-063-c09 HT0401 Homo sapiens cDNA
10586	23281	36519	2.4	1.0E-116	BF335849.1	EST_HUMAN	CM2-CT0482-300800-349-c06 CT0482 Homo sapiens cDNA
11080	23750	37025	2.85	1.0E-116	A1367140.1	EST_HUMAN	qq41e04.x1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:1935102 3' similar to WP:B0495.7
12625	25267		1.86	1.0E-116	AL134889.1	EST_HUMAN	CE01765;
545	13328	25959	1.87	1.0E-117	4826636	NT	DKFZp762L1110_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762L1110 5'
1055	15559	26474	0.96	1.0E-117	AF124393.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
1747	14489	27188	1.02	1.0E-117	AF123320.1	NT	Mus musculus fragile-X-related protein 1 (Fxr1h) gene, exons 13a through 15
1823	14562	27274	1.51	1.0E-117	M19816.1	NT	Homo sapiens lymphocyte activation-associated protein mRNA, complete cds
2208	14936	27674	1.54	1.0E-117	AW957698.1	EST_HUMAN	Human apolipoprotein B-100 (apoB) gene, exon 10
3262	16024	28674	1.64	1.0E-117	AA978114.1	EST_HUMAN	EST359769 MAGE resequences, MAGE Homo sapiens cDNA
3971	16720	29355	2.1	1.0E-117	AA316723.1	EST_HUMAN	op32c11.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'
4310	17049	29874	2.03	1.0E-117	8659564	NT	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
4538	17273	29905	2.95	1.0E-117	AL042120.1	EST_HUMAN	Homo sapiens collagen, type IV, alpha 5 (Alport syndrome) (COL4A5), mRNA
4674	17408	30043	1.27	1.0E-117	X89670.1	NT	DKFZp434C1120_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1120 5'
4874	17408	30044	1.27	1.0E-117	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
4759	17491	30119	10.03	1.0E-117	AF134304.2	NT	H. sapiens mRNA for TPCR16 protein
4759	17491	30120	10.03	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4887	17614	30233	3.57	1.0E-117	AB020673.1	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
5136	17854	30471	0.73	1.0E-117	6612461	NT	Homo sapiens mRNA for KIAA0866 protein, complete cds
5284	18070	30999	3.01	1.0E-117	BE730508.1	EST_HUMAN	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6860	17937	30574	0.86	1.0E-117	AA323348.1	EST_HUMAN	EST28111 Cerebellum II Homo sapiens cDNA 5' and similar to zinc finger domain
7350	20031	33108	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7350	20031	33109	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7446	20122	33212	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7446	20122	33213	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7878	20573	33699	3.38	1.0E-117	AI950145.1	EST_HUMAN	wp86b07.x1 NCI CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2468629 3' similar to TR:O75085
8210	20904	34039	2.29	1.0E-117	10834989	NT	O75085 KIAA0477 PROTEIN.
8210	20904	34040	2.29	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8310	21004	34141	0.56	1.0E-117	AI904151.1	EST_HUMAN	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8310	21004	34142	0.56	1.0E-117	AI904151.1	EST_HUMAN	CM-BT043-090298-075 BT043 Homo sapiens cDNA
9199	21668	35033	2.25	1.0E-117	D16524.1	NT	CM-BT043-090298-075 BT043 Homo sapiens cDNA
9666	22338	35532	2.07	1.0E-117	BE733922.1	EST_HUMAN	Human gene for very low density lipoprotein receptor, exon 11
9846	25127	35697	2.9	1.0E-117	AF099033.1	NT	601569317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5'
10469	23115	36345	1.11	1.0E-117	11420222	NT	Homo sapiens gamma-aminobutyric acid type B receptor 2 (GABABR2) mRNA, complete cds
10765	23449	36691	1.77	1.0E-117	D83776.1	NT	Homo sapiens Drosophila Kelch like protein (DKELCHL), mRNA
10964	23640	36891	2.68	1.0E-117	11424835	NT	Human mRNA for KIAA0191 gene, partial cds
10964	23640	36892	2.68	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11243	23905	37198	3.32	1.0E-117	AB011541.1	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11243	23905	37197	3.32	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11369	23976		14.73	1.0E-117	BE269856.1	EST_HUMAN	Homo sapiens mRNA for MEGF8, partial cds
11587	24186	37501	2.02	1.0E-117	4501848	NT	601186203F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3544298 5'
11587	24186	37502	2.02	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
68	12896	25530	5.98	1.0E-118	AF161500.1	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
94	12820	25557	2.13	1.0E-118	AL045854.1	EST_HUMAN	Homo sapiens HSPC181 mRNA, complete cds
504	13288	25922	5.67	1.0E-118	7657016	NT	DKFZP434056.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434056 5'
894	15555	26328	0.96	1.0E-118	5174680	NT	Homo sapiens hypothetical protein (DJ28E19.C1.1), mRNA
2227	14955	27693	2.04	1.0E-118	BE389705.1	EST_HUMAN	Homo sapiens sine oculis homeobox (Drosophila) homolog 1 (SIX1) mRNA
2227	14955	27694	2.04	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3804019 5'
2227	14955	27695	2.04	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3804019 5'
2227	14955	27695	2.04	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3804019 5'
2329	15054		1.68	1.0E-118	AW951729.1	EST_HUMAN	EST363789 MAGE cDNAs, MAGEB Homo sapiens cDNA
2744	15450	28189	2.61	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
2744	15450	28190	2.61	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
3102	15867		4.64	1.0E-118	Y13932.1	NT	Human sapiens PRKY exon 7



Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3190	15953	28605	4.67	1.0E-118	AI347694.1	EST_HUMAN	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
3190	15953	28606	4.97	1.0E-118	AI347694.1	EST_HUMAN	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
4067	16811	29439	4.77	1.0E-118	D23660.1	NT	Human mRNA for ribosomal protein, complete cds
4669	17393	30028	0.9	1.0E-118	11425793	NT	Homo sapiens KIAA0478 gene product (KIAA0478), mRNA
5337	18140	30800	1.87	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5337	18140	30801	1.87	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5543	18340	31247	0.94	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5543	18340	31248	0.94	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5884	18477	31395	1.24	1.0E-118	M55109.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 4
5772	18563	31491	0.83	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
5772	18563	31492	0.83	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
5853	18540	31578	1.49	1.0E-118	11420764	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6592	19355	32368	1.44	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6592	19355	32369	1.44	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6997	19689	32738	1.12	1.0E-118	AL043761.1	EST_HUMAN	DKFZp434O0127_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434O0127 5'
6997	19689	32739	1.12	1.0E-118	AL043761.1	EST_HUMAN	DKFZp434O0127_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434O0127 5'
7500	20172	33264	5.63	1.0E-118	11431090	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7733	20397	33512	0.86	1.0E-118	BF685272.1	EST_HUMAN	602141620F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302749 5'
7872	20567	33693	2.17	1.0E-118	BE781223.1	EST_HUMAN	601469159F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3872247 5'
7733	20397	33512	0.86	1.0E-118	BF685272.1	EST_HUMAN	602141620F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302749 5'
8282	20976	34116	6.58	1.0E-118	BE062855.1	EST_HUMAN	QVO-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
8282	20976	34117	6.58	1.0E-118	BE062855.1	EST_HUMAN	QVO-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
8288	20982	34122	1.37	1.0E-118	AA443024.1	EST_HUMAN	z98d07.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
8288	20982	34123	1.37	1.0E-118	AA443024.1	EST_HUMAN	z98d07.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
8573	21285	34404	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8573	21285	34405	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8621	21313	34456	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8621	21313	34456	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8933	21624	34767	4.95	1.0E-118	BE263134.1	EST_HUMAN	601144863F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160502 5'
8964	21655	34806	0.55	1.0E-118	AL048474.2	EST_HUMAN	DKFZp586K1824_r1 586 (synonym: hies1) Homo sapiens cDNA clone DKFZp586K1824
9493	22146	35327	1.53	1.0E-118	7657016	NT	Homo sapiens hypothetical protein (D3J28E19.C1.1), mRNA
9886	22536	35731	0.98	1.0E-118	AL136321.1	EST_HUMAN	DKFZp547O017_r1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547O017 5'
10274	22922	36134	1.88	1.0E-118	BF195407.1	EST_HUMAN	7n17e09.x1 NCI_CGAP_Bn23 Homo sapiens cDNA clone IMAGE:3564785 3' similar to SW:ZP3A_HUMAN P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR;

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10365	23012	36227	0.46	1.0E-118	AW271289.1	EST_HUMAN	xe46a10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2772666 3' similar to
10431	23077	36300	0.65	1.0E-118	AW296351.1	EST_HUMAN	SW:BODG_HUMAN 075936 GAMMA-BUTYROBETAINE-2-OXOGUTARATE DIOXYGENASE ;
11206	23869	37155	1.61	1.0E-118	BF885214.1	EST_HUMAN	UIH-BW0-alo-a-07-Q-JI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729772 3'
11236	23899	37186	1.8	1.0E-118	11055968	NT	602141529F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302798 5'
11246	23908	37201	10.23	1.0E-118	AA315007.1	EST_HUMAN	Homo sapiens protein with polyglutamine repeat calcium (ca2+) homeostasis endoplasmic reticulum protein (ERPROT213-21), mRNA
11548	24147	37457	1.68	1.0E-118	BE908676.1	EST_HUMAN	EST186814 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to dynein, light chain 1, cytoplasmic
11548	24147	37458	1.68	1.0E-118	BE908676.1	EST_HUMAN	601496514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11551	24150	37461	1.61	1.0E-118	BF093687.1	EST_HUMAN	601496514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11551	24150	37482	1.61	1.0E-118	BF093687.1	EST_HUMAN	QVQ-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
741	13514	26173	0.97	1.0E-119	AF170492.1	NT	QVQ-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
1014	15558	26433	1.61	1.0E-119	7708607	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
1928	14662	27374	5.97	1.0E-119	AB023147.1	NT	Homo sapiens CGI-105 protein (LOC51011), mRNA
3099	16864	28506	1.57	1.0E-119	8922205	NT	Homo sapiens mRNA for KIAA0930 protein, partial cds
3234	15998		0.8	1.0E-119	AA916760.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10052, mRNA
3934	16884	29325	1.42	1.0E-119	4504116	NT	on10b05.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1556241 3' similar to WP:E04F6.2 CE01214 ;
5263	18059	30688	2.5	1.0E-119	AF133399.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5266	18072	30701	21.82	1.0E-119	MB9914.1	NT	AU133399 NT2RP4 Homo sapiens cDNA clone NT2RP4001991 5'
5270	18076	30706	3.11	1.0E-119	BE936121.1	EST_HUMAN	Human neurofibromin (NF1) gene, complete cds
5347	18150	30830	1.63	1.0E-119	AV693731.1	EST_HUMAN	RC1-NN0073-250800-018-g08 NN0073 Homo sapiens cDNA
5503	18301	31201	0.63	1.0E-119	AL134903.1	EST_HUMAN	AV693731 GKC Homo sapiens cDNA clone GKCDHB03 5'
5503	18301	31202	0.63	1.0E-119	AL134903.1	EST_HUMAN	DKFZp762M0710_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762M0710 5'
6036	18816	31776	7.67	1.0E-119	AI150703.1	EST_HUMAN	DKFZp762M0710_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762M0710 5'
6190	18967	31940	0.92	1.0E-119	AF315683.1	NT	q677c09.x1 Soares_fetal_heart_NbrH19W Homo sapiens cDNA clone DKFZp762M0710 5'
6190	18967	31941	0.92	1.0E-119	AF315683.1	NT	SW:K1CJ_MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10 ;
6239	19013	31987	0.85	1.0E-119	AI476732.1	EST_HUMAN	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6370	19139	32135	2.62	1.0E-119	X06292.1	NT	Im23f10.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2157451 3'
6380	19149	32148	4.69	1.0E-119	AW874193.1	EST_HUMAN	Human c-fes/tps proto-oncogene
7310	19993	33070	1.5	1.0E-119	BE796614.1	EST_HUMAN	EST386206 MAGE resequences, MAGM Homo sapiens cDNA
8560	21252	34390	1.19	1.0E-119	BE615150.1	EST_HUMAN	601592005F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946081 5'
							601280564F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622526 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9807	22468	35863	1.15	1.0E-119	11036643	NT	Homo sapiens KIAA0477 gene product (KIAA0477), mRNA
10006	22654	35867	0.55	1.0E-119	AJ149796.1	EST_HUMAN	qf43a11.x1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1752764 3' similar to TR:Q13458
10146	22794	36008	3.35	1.0E-119	AA485124.1	EST_HUMAN	Q13458 GUANINE NUCLEOTIDE EXCHANGE FACTOR PROTEIN TRIO.:
10401	23047	36263	1.29	1.0E-119	AJ297701.1	NT	aa32f05.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814977 5'
10443	23089	36317	0.71	1.0E-119	11425537	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10443	23089	36318	0.71	1.0E-119	11425537	NT	Homo sapiens hypothetical protein FLJ10206 (FLJ10206), mRNA
10517	23163	36390	4.16	1.0E-119	AB032261.1	NT	Homo sapiens hypothetical protein FLJ10206 (FLJ10206), mRNA
10985	23660	36913	2.38	1.0E-119	AJ297701.1	NT	Homo sapiens Sod mRNA for stearyl-CoA desaturase, complete cds
10985	23660	36914	2.38	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
11159	23826		6.31	1.0E-119	BF569571.1	EST_HUMAN	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
12198	25328		2.16	1.0E-119	AW847519.1	EST_HUMAN	602186072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310633 5'
294	13100	25741	1.43	1.0E-120	4507334	NT	RC3-CT0212-240999-011-f03 CT0212 Homo sapiens cDNA
1018	13778	26439	2.49	1.0E-120	AF248540.1	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
1018	13778	26440	2.49	1.0E-120	AF248540.1	NT	Homo sapiens intersecin 2 (SH3D1B) mRNA, complete cds
1405	14152	26832	2.31	1.0E-120	N44873.1	EST_HUMAN	Homo sapiens intersecin 2 (SH3D1B) mRNA, complete cds
1597	14343	27033	3.08	1.0E-120	AF167706.1	NT	yy40g12.r1 Scores melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:273766 5'
1799	14539	27250	1.21	1.0E-120	4557250	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
2100	14831	27565	0.92	1.0E-120	AB011399.1	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2100	14831	27566	0.92	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
2531	15247	27985	5.24	1.0E-120	4755124	NT	Homo sapiens gene for AF-6, complete cds
3302	13100	25741	1.59	1.0E-120	4507334	NT	Homo sapiens aquaporin 4 (AQP4), splice variant b, mRNA
4325	17064	29692	1.95	1.0E-120	AF056490.1	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
4325	17064	29693	1.95	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4614	17349	29983	2.22	1.0E-120	AF098463.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4614	17349	29984	2.22	1.0E-120	AF098463.1	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
5065	17784	30401	1.36	1.0E-120	4504116	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
5133	17851	30468	0.9	1.0E-120	AI190903.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5649	18444	31357	16.61	1.0E-120	BF568222.1	EST_HUMAN	qd61f03.x1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1733981 3'
5649	18444	31358	16.61	1.0E-120	BF568222.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
6350	19120	32110	0.57	1.0E-120	M29428.1	NT	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
6350	19120	32111	0.57	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
7471	20144	33236	1.77	1.0E-120	D34619.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
7795	20490	33612	5.22	1.0E-120	Y00067.1	NT	Human TBXAS1 gene for thromboxane synthase, exon 7
							Human gene for neurofilament subunit M (NF-M)

Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7795	20490	33613	5.22	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)
8230	20924	34063	2.43	1.0E-120	BF337599.1	EST_HUMAN	602035352F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4183333 5'
8303	20997	34135	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8303	20997	34136	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8307	21001	34138	2.33	1.0E-120	AB007984.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8307	21001	34139	2.33	1.0E-120	AB007984.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8362	21045	34182	1.17	1.0E-120	AB007934.1	NT	Homo sapiens mRNA for KIAA0465 protein, partial cds
8401	22063	35233	5.26	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9401	22063	35234	5.26	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9845	22297	35492	3.75	1.0E-120	BF306541.1	EST_HUMAN	60188959F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3847281 5'
9860	22312	35510	8.25	1.0E-120	AU133205.1	EST_HUMAN	AU133205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'
9877	22329	35525	0.79	1.0E-120	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
9792	22443		0.54	1.0E-120	A1904151.1	EST_HUMAN	GM-BT043-090289-075 BT043 Homo sapiens cDNA
9878	22624	35831	2.55	1.0E-120	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
11071	23741	37015	3.72	1.0E-120	BE286387.1	EST_HUMAN	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532016 5'
11316	24007	37311	2.08	1.0E-120	BE867619.1	EST_HUMAN	601443136F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11316	24007	37312	2.06	1.0E-120	BE867619.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11650	24247	37567	1.38	1.0E-120	U94774.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, 5'UTR and exon 1
71	12898	25534	1.08	1.0E-121	Y18000.1	NT	Homo sapiens NF2 gene
369	13165	25808	0.83	1.0E-121	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
707	15549	26130	1.31	1.0E-121	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
1568	14315	27001	2.81	1.0E-121	AB011163.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
1958	14694	27407	1.33	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate 4-phosphatase, type I, 107kD (NPP4A), splice variant a, mRNA
1958	14694	27408	1.33	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate 4-phosphatase, type I, 107kD (NPP4A), splice variant a, mRNA
1984	14700	27416	1.18	1.0E-121	M95968.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 9
1984	14700	27416	1.18	1.0E-121	M95968.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 9
2095	14828	27559	1.51	1.0E-121	L78631.1	NT	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
3079	15844	28486	3.51	1.0E-121	Y19208.1	NT	Homo sapiens hrb3 gene for hair keratin, exons 1 to 9
3079	15844	28487	3.51	1.0E-121	Y19208.1	NT	Homo sapiens hrb3 gene for hair keratin, exons 1 to 9
3525	16281	28936	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3525	16281	28937	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3668	16419	29060	7.35	1.0E-121	AF155156.2	NT	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4296	17035	29863	2	1.0E-121	AI263294.1	EST_HUMAN	q57b01.x1 NCI CGAP Pan1 Homo sapiens cDNA clone IMAGE:2005417 3'
4919	17647	30259	3.24	1.0E-121	X91937.1	NT	H. sapiens ECE-1 gene (exon 17)
5186	17994	30510	0.97	1.0E-121	BE222250.1	EST_HUMAN	hu09f08.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166119 3'
5474	18273	31167	0.85	1.0E-121	BE271424.1	EST_HUMAN	801140485F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049820 5'
6524	19290	32294	0.91	1.0E-121	M91483.1	NT	Human glucose transporter (GLUT4) gene, complete cds
6788	19532		0.68	1.0E-121	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
6866	17943	30537	1.78	1.0E-121	AW898086.1	EST_HUMAN	RC3-NN0066-270400-011-402 NN0066 Homo sapiens cDNA
6866	17943	30538	1.78	1.0E-121	AW898086.1	EST_HUMAN	RC3-NN0066-270400-011-402 NN0066 Homo sapiens cDNA
7838	20533	33660	2.11	1.0E-121	11436217	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2), mRNA
7842	20537	33664	2.45	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
7842	20537	33665	2.45	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
9758	22409	35615	1.21	1.0E-121	AW563858.1	EST_HUMAN	PHOSPHOLIPASE A2-GAMMA. ;
9758	22409	35616	1.21	1.0E-121	AW563858.1	EST_HUMAN	PHOSPHOLIPASE A2-GAMMA. ;
10675	23366	36609	2.95	1.0E-121	11427788	NT	Homo sapiens COX11 (yeast) homolog, cytochrome c oxidase assembly protein (COX11), mRNA
10683	23374	36616	1.28	1.0E-121	AF084200.1	NT	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E458 allele, complete cds
10889	23569	36820	3.46	1.0E-121	7330334	NT	Homo sapiens chloride intracellular channel 4 like (CLIC4L), mRNA
10917	23597	36844	2.53	1.0E-121	N59824.1	EST_HUMAN	y74c01.s1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:248448 3'
11309	23968	37269	2.83	1.0E-121	AU119320.1	EST_HUMAN	AU119320 HEMBA1 Homo sapiens cDNA clone HEMBA1005538 5'
281	13069	25707	2.28	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
327	13128	25763	2.63	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
348	13147	25787	2.14	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
862	13631	26302	3.99	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
1198	13950	26614	4.29	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa I)
1688	14432	27128	1.28	1.0E-122	AF16706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
1707	14450	27150	1.35	1.0E-122	11416424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1707	14450	27151	1.35	1.0E-122	11416424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1807	14547	27262	4.54	1.0E-122	BE06024.1	EST_HUMAN	801497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3896358 5'
2485	15212	27954	5.21	1.0E-122	BF316170.1	EST_HUMAN	801896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126234 5'
2485	15212	27955	5.21	1.0E-122	BF316170.1	EST_HUMAN	801896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126234 5'

Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2844	15612	28260	1.41	1.0E-122	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
4795	17526	30148	5.04	1.0E-122	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
4930	17658		1.46	1.0E-122	AW504645.1	EST_HUMAN	U1HF-BNO-03-QJL17 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079948 5'
5476	18275	31170	1.36	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
6658	18275	31170	7.1	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
7113	18801	32865	0.73	1.0E-122	AA868871.1	EST_HUMAN	ak49h08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409339 3'
8695	21387	34530	0.65	1.0E-122	AJ276801.1	NT	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMRT1)
8928	21617	34781	1.21	1.0E-122	11424216	NT	Homo sapiens lethal giant larvae (Drosophila) homolog 2 (LGL2), mRNA
9223	21902	35073	1.19	1.0E-122	AI359818.1	EST_HUMAN	q32h07.x1 NCL_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MITA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.;
9223	21902	35074	1.19	1.0E-122	AI359818.1	EST_HUMAN	q32h07.x1 NCL_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MITA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.;
10034	22682	35899	1.05	1.0E-122	AL117234.1	NT	Novel human gene mapping to chromosome X, isoform of dbi (proto-oncogene)
10908	23588	36834	2.17	1.0E-122	AW955834.1	EST_HUMAN	EST367904 MAGE resequences, MAGE Homo sapiens cDNA
11358	24046	37349	1.88	1.0E-122	AB024068.1	NT	Homo sapiens gene for B120, exon 10
11958	24509		6.8	1.0E-122	11418187	NT	Homo sapiens phosphomannomutase 1 (PMM1), mRNA
751	13523	28181	1.74	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'
761	13523	28182	1.74	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'
992	13754	28415	5.4	1.0E-123	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
1001	13761	28422	2.5	1.0E-123	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1216	13966	28634	5.58	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1216	13966	28635	5.58	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1438	14185	28871	0.91	1.0E-123	AJ388641.1	NT	Homo sapiens partial mRNA for immunoglobulin kappa chain variable region (IGK gene), sample GN02
2092	14823	27555	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27556	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27557	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2313	15038		3.62	1.0E-123	7705962	NT	Homo sapiens RAB9-like protein (LOC31209), mRNA
3245	16007	28857	0.95	1.0E-123	6912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutaminyl cyclase) (QPCT), mRNA
5361	18163	30847	1.56	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5361	18163	30848	1.56	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
5494	18293	31191	1.62	1.0E-123	BE799746.1	EST_HUMAN	601591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'
6377	19146	32145	2.59	1.0E-123	AU118435.1	EST_HUMAN	AU118435 HEMBAT Homo sapiens cDNA clone HEMBA1003591 5'
6905	19643	32688	1.2	1.0E-123	H63198.1	EST_HUMAN	y84a03.r1 Soares fetal liver spleen TNF $\alpha$ INFLS Homo sapiens cDNA clone IMAGE:202444 5' similar to SP-YAK1_YEAST P14680 PROTEIN KINASE YAK1 ;
6915	19652	32698	1.25	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
7094	19783	32849	2.87	1.0E-123	U55258.1	NT	Human hBRAVO/Nr-CAM precursor (hBRAVO/Nr-CAM) gene, complete cds
7302	19985	33061	1.62	1.0E-123	11525833	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 2 (HS3ST2), mRNA
7442	20212	33312	1.3	1.0E-123	11436439	NT	Homo sapiens 2'-5'-oligoadenylate synthetase 2 (OAS2), mRNA
7551	20221	33324	2.18	1.0E-123	BE263001.1	EST_HUMAN	601152815F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509162 5'
7816	20511	33636	0.67	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
7816	20511	33637	0.67	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
8433	21126		1.13	1.0E-123	AW371924.1	EST_HUMAN	RC4-BT0311-251199-012-a07 BT0311 Homo sapiens cDNA
9269	22023	35193	2.43	1.0E-123	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9405	22067	35239	15.48	1.0E-123	U09823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabefia2) mRNA, complete cds
11720	24314	37637	4.66	1.0E-123	BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
11720	24314	37638	4.66	1.0E-123	BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
262	13070	25708	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
262	13070	25709	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
268	13076		2.69	1.0E-124	D67675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
473	13259	25888	2.84	1.0E-124	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
675	13450	26092	2.68	1.0E-124	AA397551.1	EST_HUMAN	z81b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
675	13450	26093	2.68	1.0E-124	AA397551.1	EST_HUMAN	G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
742	13515	26174	7.84	1.0E-124	AF155654.1	NT	G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
790	13562	26223	1.61	1.0E-124	4507500	NT	Human putative ribosomal protein S1 mRNA
884	13653	26321	1.94	1.0E-124	7705446	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1325	14074	26747	4.95	1.0E-124	AF274892.1	NT	Homo sapiens hypothetical protein (HSPC068), mRNA
1325	14074	26748	4.95	1.0E-124	AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1808	14548	27263	2.29	1.0E-124	AJ131712.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
2054	14786	27512	3.05	1.0E-124	BE879524.1	EST_HUMAN	Homo sapiens mRNA for nucleolar RNA-helicase (noH61 gene)
3358	16118	28774	0.85	1.0E-124	4504116	NT	601491715F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893954 5'
							Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3482	16239	28896	1.25	1.0E-124	S78894.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3482	16239	28896	1.25	1.0E-124	S78894.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3640	16393	29033	1.54	1.0E-124	X13794.1	NT	H. sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and joined CDS)
3880	16630	29289	1	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4056	16801	29432	1.34	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4696	17430	30081	1.94	1.0E-124	AB024089.1	NT	Homo sapiens gene for B120, exon 11
4851	17608		1.13	1.0E-124	M18178.1	NT	Human fibronectin gene extra type III repeat (EDII), exon x+1
5215	18023	30647	12.12	1.0E-124	8922337	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5588	18383	31293	0.92	1.0E-124	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
5797	18588	31514	6.94	1.0E-124	BF606135.1	EST_HUMAN	602124644F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'
6077	18856	31823	0.91	1.0E-124	AV711263.1	EST_HUMAN	AV711263 Cu Homo sapiens cDNA clone CuAADF07 5'
6339	19109	32099	0.98	1.0E-124	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
6912	19849	32695	2.95	1.0E-124	Y11717.1	NT	Musculus mRNA for hox3 gene
7037	19729	32786	0.94	1.0E-124	BE271295.1	EST_HUMAN	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2966585 5'
7037	19729	32787	0.94	1.0E-124	BE271295.1	EST_HUMAN	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2966585 5'
7452	20128	33220	0.92	1.0E-124	AA630331.1	EST_HUMAN	ac08h05.s1 Strategene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:855897 3'
8156	20850	33982	8.07	1.0E-124	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
8362	21055	34195	1.26	1.0E-124	AW612106.1	EST_HUMAN	hg94a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2963240 3' similar to TR:O95162
8362	21055	34196	1.26	1.0E-124	AW612106.1	EST_HUMAN	O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE. ;
9060	21749	34907	0.61	1.0E-124	AI799864.1	EST_HUMAN	hg94a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2963240 3' similar to TR:O95162
9060	21749	34908	0.61	1.0E-124	AI799864.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2321428 3'
9390	22052	35223	2.31	1.0E-124	AV645633.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2321428 3'
9390	22052	35224	2.31	1.0E-124	AV645633.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'
9477	22130	35309	0.52	1.0E-124	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
9477	22130	35310	0.52	1.0E-124	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
9508	22161	35342	7.57	1.0E-124	AI767133.1	EST_HUMAN	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
9508	22161	35343	7.57	1.0E-124	AI767133.1	EST_HUMAN	w83f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
9771	22422	35630	1.57	1.0E-124	AW503755.1	EST_HUMAN	w83f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
10804	23487		1.44	1.0E-124	11432087	NT	UI-HF-BN0-akz-b-04-Q-UJr1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078846 5'
10804	23487		1.44	1.0E-124	11432087	NT	Homo sapiens leucine-rich, glioma inactivated 1 (LGI1), mRNA
10976	23652	36905	1.61	1.0E-124	U94778.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17
11305	23964	37265	3.51	1.0E-124	AW685663.1	EST_HUMAN	hj05c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2880906 3'



Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11452	23219	36452	3	1.0E-124	AI446455.1	EST_HUMAN	U19e03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKRS PROTEIN.;
11452	23219	36453	3	1.0E-124	AI446455.1	EST_HUMAN	U19e03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKRS PROTEIN.;
12029	13450	26092	4.1	1.0E-124	AA397551.1	EST_HUMAN	Z81B04.r1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12029	13450	26093	4.1	1.0E-124	AA397551.1	EST_HUMAN	Z81B04.r1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12454	24823	31026	1.61	1.0E-124	AB029016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12706	25279	30729	1.44	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12706	25279	30730	1.44	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
146	12961	25603	1.74	1.0E-125	BE219510.1	EST_HUMAN	h59e08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058 FIBROPELIN IA;
146	12961	25604	1.74	1.0E-125	BE219510.1	EST_HUMAN	h59e08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058 FIBROPELIN IA;
311	13115		5.49	1.0E-125	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
417	12828	25441	5.47	1.0E-125	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926885 5'
629	13408	26043	1.18	1.0E-125	AI110856.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
629	13408	26044	1.18	1.0E-125	AI110856.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
711	13485	26134	1.56	1.0E-125	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
840	13610	26280	2.29	1.0E-125	AA042813.1	EST_HUMAN	z453c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
978	13743	26405	1.22	1.0E-125	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1131	13887	26545	1.76	1.0E-125	7662279	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
1688	15575	27105	0.99	1.0E-125	7661867	NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
1793	14533	27242	0.91	1.0E-125	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1804	14544	27258	1.59	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
1804	14544	27259	1.59	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
2358	15080	27816	1.68	1.0E-125	AA011278.1	EST_HUMAN	z01g09.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429568 5'
2508	15225	27967	0.99	1.0E-125	AA042813.1	EST_HUMAN	z453c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2604	15317	28057	1.3	1.0E-125	4504696	NT	Homo sapiens inhibin, alpha (INH) mRNA
2604	15317	28058	1.3	1.0E-125	4504696	NT	Homo sapiens inhibin, alpha (INH) mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3009	17874	28425	0.94	1.0E-125	BE018009.1	EST_HUMAN	bb74f06.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048131 5' similar to TR:Q95804 Q95804 ZINC FINGER PROTEIN.
3839	16590	29228	0.92	1.0E-125	AA042813.1	EST_HUMAN	2k53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857 cd1 OLFATORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
4513	17248	29883	2.09	1.0E-125	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4513	17248	29884	2.09	1.0E-125	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4971	12961	25603	1.48	1.0E-125	BE219510.1	EST_HUMAN	hV69a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058 FIBROPEL LIN IA;
4971	12961	25604	1.48	1.0E-125	BE219510.1	EST_HUMAN	hV69a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058 FIBROPEL LIN IA;
5783	18574	31503	3.16	1.0E-125	11436448	NT	Homo sapiens KIAA0885 protein (KIAA0885), mRNA
5802	18592	31517	0.91	1.0E-125	BE178169.1	EST_HUMAN	QV2-HT0577-010500-165-b06 HT0577 Homo sapiens cDNA
5842	18630	31565	3.76	1.0E-125	BE892660.1	EST_HUMAN	601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918952 5'
5884	18670	31611	0.74	1.0E-125	AI679904.1	EST_HUMAN	tu87c07.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2256108 3' similar to WP:C45G9.2 CE01854;
6188	18665	31938	0.8	1.0E-125	BE736055.1	EST_HUMAN	601305670F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3640097 5'
6486	19253	32253	1.53	1.0E-125	BE562526.1	EST_HUMAN	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689790 5'
6486	19253	32254	1.53	1.0E-125	BE562526.1	EST_HUMAN	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689790 5'
6961	19443	32469	5.26	1.0E-125	X03427.1	NT	Homo sapiens IGF-II gene, exon 5
6961	19443	32460	5.26	1.0E-125	X03427.1	NT	Homo sapiens IGF-II gene, exon 5
7706	20370	33483	0.55	1.0E-125	BE515100.1	EST_HUMAN	601236183F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608084 5'
8444	21136	34273	0.99	1.0E-125	U90288.1	NT	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
8444	21136	34274	0.99	1.0E-125	U90288.1	NT	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
9016	21708	34858	6.83	1.0E-125	BE181640.1	EST_HUMAN	QV1-HT0638-070500-191-d12 HT0638 Homo sapiens cDNA
9016	21706	34857	6.83	1.0E-125	BE181640.1	EST_HUMAN	QV1-HT0638-070500-191-d12 HT0638 Homo sapiens cDNA
9281	22035	35207	0.86	1.0E-125	AI565996.1	EST_HUMAN	hs52b03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2171991 3' similar to TR:Q14089 Q14089 HYPOPHYSICAL PROTEIN;
10350	22997	36215	0.53	1.0E-125	BE794576.1	EST_HUMAN	601590349F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:39444531 5'
10391	23037	36253	1.06	1.0E-125	AB002298.1	NT	Human mRNA for KIAA0300 gene, partial cds
10391	23276	36514	3.23	1.0E-125	AF043498.1	NT	Homo sapiens I-REL gene, exon 5
10758	23443	36888	1.61	1.0E-125	11425570	NT	Homo sapiens tyrosine receptor 1 (skeletal) (RYR1), mRNA
11081	23751	37029	3.94	1.0E-125	AB014567.1	NT	Homo sapiens mRNA for KIAA0697 protein, partial cds

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11259	23921	37213	1.74	1.0E-125	7669505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
11265	23927	37218	4.84	1.0E-125	AF026028.1	NT	Homo sapiens poly(A) binding protein II (PABP2) gene, complete cds
11377	23984	37284	1.92	1.0E-125	AW812899.1	EST_HUMAN	RC3-ST0186-250200-018-c11 ST0186 Homo sapiens cDNA
11486	24087	37397	3.58	1.0E-125	BE074287.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
11488	24087	37398	3.58	1.0E-125	BE074287.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
787	13529	26189	1.46	1.0E-126	4758007	NT	Homo sapiens CDC-like kinase (CLK) mRNA
899	13597	26331	1.45	1.0E-126	X88735.1	NT	H. sapiens gene for alpha1-antichymotrypsin, exon 3
2344	15067	27804	1.17	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2344	15067	27805	1.17	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2605	15318	28059	1.48	1.0E-126	6382078	NT	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3089	15835	28479	0.72	1.0E-126	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3070	15836	28480	7.54	1.0E-126	AA160709.1	EST_HUMAN	zp72c03.r1 Stratiagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'
3070	15836	28480	7.54	1.0E-126	AA160709.1	EST_HUMAN	zp72c03.r1 Stratiagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'
3620	16373	29014	1.09	1.0E-126	X53941.1	NT	H. sapiens DNA for liver cytochrome b5 pseudogene
3647	16400	29040	1.6	1.0E-126	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
4783	17816	30137	1.74	1.0E-126	N34078.1	EST_HUMAN	yx78c06.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:287850 5'
5078	17797	30413	0.81	1.0E-126	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3926685 5'
5616	18412	31325	0.68	1.0E-126	T66968.1	EST_HUMAN	ya52b12.s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:66827 3'
6199	18917	31987	3.22	1.0E-126	AA460075.1	EST_HUMAN	zx66e03.r1 Soares total fetus Nb2-HF8_gw Homo sapiens cDNA clone IMAGE:798444 5' similar to
6197	18973	31949	4.2	1.0E-126	AB040958.1	NT	TR.G1145880 G1145880 TITIN;
6187	18973	31950	4.2	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
7399	20077	33157	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7399	20077	33158	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7602	20268	33375	0.62	1.0E-126	AU139483.1	EST_HUMAN	AU138463 PLACE1 Homo sapiens cDNA clone PLACE1004925 5'
7655	20319	33428	0.69	1.0E-126	A1806483.1	EST_HUMAN	w08r01.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350009 3' similar to
7778	20473	33596	0.76	1.0E-126	AB037715.1	NT	SW:MPP2_HUMAN Q14168 MAGUK P95 SUBFAMILY MEMBER 2;
7778	20473	33597	0.76	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
7887	20562	33711	2.55	1.0E-126	X16609.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
						NT	Human mRNA for ankryrin (variant 2.1)
8083	20777	33907	0.99	1.0E-126	AA483398.1	EST_HUMAN	ne74b12.s1 NCL_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:909983 similar to SW:TSG6_HUMAN
9896	22346	35539	0.87	1.0E-126	4505424	NT	P98066 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR ; Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10693	23384	36624	1.27	1.0E-126	M93196.1	NT	Human macrophage mannose receptor (MRC1) gene, exon 5
10766	23450	36692	2.36	1.0E-126	BF083175.1	EST_HUMAN	602139138F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4296240 5'
11501	24102	37414	5.47	1.0E-126	BE261690.1	EST_HUMAN	601149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5'
12480	17797	30413	7.17	1.0E-126	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'
168	12982	25622	4.63	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
168	12982	25623	4.63	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
169	12982	25622	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
169	12982	25623	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
267	13075	25716	3.54	1.0E-127	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
267	13075	25717	3.54	1.0E-127	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
881	13630	26301	2.03	1.0E-127	AF114488.1	NT	Homo sapiens interseitin short isoform (ITSN) mRNA, complete cds
896	13664	26330	1.37	1.0E-127	U72621.2	NT	Homo sapiens lost on transformation LOT1 mRNA, complete cds
1688	14430	27128	1.08	1.0E-127	4827053	NT	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA
2058	14790	27515	2.44	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2058	14790	27516	2.44	1.0E-127	5803066	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2197	14926	27661	6.02	1.0E-127	4506620	NT	Homo sapiens ribosomal protein L26 (RPL26) mRNA
2341	15064	27801	2.73	1.0E-127	AF245505.1	NT	Homo sapiens adican mRNA, complete cds
2614	15325	28068	3.04	1.0E-127	X12881.1	NT	Human mRNA for cyclotactin 18
2626	15338	28081	1.1	1.0E-127	AA450131.1	EST_HUMAN	zx42a02.r1 Soares, total, fetus Nb2HF8 9w Homo sapiens cDNA clone IMAGE:789098 5'
2626	15338	28082	1.1	1.0E-127	AA450131.1	EST_HUMAN	zx42a02.r1 Soares, total, fetus Nb2HF8 9w Homo sapiens cDNA clone IMAGE:789098 5'
3791	16543	29178	1.21	1.0E-127	AW161297.1	EST_HUMAN	au80e06.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782594 5' similar to TR-Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN ;contains element MER22 repetitive element ;
4096	16938	29465	0.7	1.0E-127	AF135188.1	NT	Homo sapiens delayed rectifier potassium channel subunit Isk mRNA, complete cds
4227	16968	29592	23.74	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51694), mRNA
4227	16968	29593	23.74	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51694), mRNA
4482	17198	29824	0.94	1.0E-127	AF252297.1	NT	Homo sapiens cytochrome P450 reductase metabolizing protein P450RAI-2 mRNA, complete cds
4564	17299	29926	4.35	1.0E-127	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
4590	17325		1.92	1.0E-127	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4625	17360	29993	1.26	1.0E-127	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5620	18416	31329	1.37	1.0E-127	W03547.1	EST_HUMAN	z01a10.1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:291258 5' similar to SW:PIP6_RAT P10688 1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE DELTA 1;
5650	18445	31359	2.4	1.0E-127	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
5713	18506	31428	4.25	1.0E-127	X85794.1	NT	H. sapiens NOS2 gene, exon 8
6070	18849	31813	2.17	1.0E-127	X84090.1	NT	H. sapiens TGF11 gene, exon 3-8
9229	19003	31979	5.28	1.0E-127	4504778	NT	Homo sapiens integrin, beta 8 (ITGB8) mRNA
6560	19325	32332	0.89	1.0E-127	11421595	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3), mRNA
5952	19444	32461	0.81	1.0E-127	4828977	NT	Homo sapiens reelin (RELN) mRNA
7684	20348	33461	1.65	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7684	20348	33462	1.65	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7691	20355	33470	0.84	1.0E-127	AW98292.1	EST_HUMAN	QV3-BND046-150300-121-h11 BND046 Homo sapiens cDNA
8785	21477	34625	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8785	21477	34626	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9540	22193	35377	4.17	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9540	22193	35378	4.17	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9773	22424	35631	1	1.0E-127	A1298932.1	EST_HUMAN	qm84h09.x1 NC1_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1896449 3'
10241	22889	36101	1.34	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
11107	23777	37050	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC683184), mRNA
11107	23777	37051	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC683184), mRNA
11627	24224	37546	3.25	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
11627	24224	37547	3.25	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
12244	12982	25622	2.25	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12244	12982	25623	2.25	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12444	24814	31048	2.88	1.0E-127	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
447	13233	25873	3.04	1.0E-128	BE385617.1	EST_HUMAN	601278127F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618822 5'
2063	14795	27520	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2063	14795	27521	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2206	14934	27672	8.76	1.0E-128	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
2448	15165		1.1	1.0E-128	11437455	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA
3389	16148	28802	1.08	1.0E-128	AB033073.1	NT	Homo sapiens mRNA for KIAA1247 protein, partial cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4616	17351	29986	6.14	1.0E-128	11426673	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
5498	18257	31147	0.7	1.0E-128	X89539.1	NT	H. sapiens gene for Inter-alpha-trypsin inhibitor heavy chain H1, exon 12
5886	18872	31813	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580486F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929057 5'
5886	18872	31814	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580486F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929057 5'
6324	19094	32082	2.58	1.0E-128	11420965	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
6931	19493	32516	6.9	1.0E-128	BF224345.1	EST_HUMAN	7q86b10.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3'
7327	20010	33089	0.82	1.0E-128	BE614105.1	EST_HUMAN	601503846F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905794 5'
7692	20366	33471	0.67	1.0E-128	11645923	NT	Homo sapiens putative ABC transporter (WHITE2), mRNA
8446	21138	34276	0.73	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8446	21138	34277	0.73	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10037	22885	35903	1.63	1.0E-128	AA639198.1	EST_HUMAN	ns04a11.1 NCI CGAP_Ev1 Homo sapiens cDNA clone IMAGE:1182620 similar to TR:G951338 G951338
10808	23302	36541	3.52	1.0E-128	11425264	NT	CHROMOSOME SEGREGATION GENE HOMOLOG CAS. ;
10818	23311	36550	3.21	1.0E-128	AA926959.1	EST_HUMAN	om68h08.s1 NCI CGAP_GC4 Homo sapiens cDNA clone IMAGE:1552383 3' similar to gb:X54941 CYCLIN-DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN);
10699	23390	36628	1.35	1.0E-128	AL252060.1	NT	Homo sapiens mRNA for TRABID protein (TRABID gene)
10761	23445	36689	1.4	1.0E-128	BE384476.1	EST_HUMAN	601277826F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3678750 5'
12117	24610	36839	7.02	1.0E-128	AW955290.1	EST_HUMAN	EST367360 IMAGE resequences, MAGC Homo sapiens cDNA
118	13189	25839	1.33	1.0E-129	S37722.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
404	13189	25839	1.19	1.0E-129	S37722.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1713	14456	27154	2.73	1.0E-129	AL096880.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
1717	14460	27158	1.57	1.0E-129	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1717	14460	27159	1.57	1.0E-129	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1838	14576	27288	2.78	1.0E-128	11418522	NT	Homo sapiens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA
3125	15890	28531	1.21	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3125	15890	28532	1.21	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3125	15890	28533	1.21	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
4143	16885	29516	1.94	1.0E-129	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
4247	16988	29611	2.26	1.0E-129	AW755254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5 Cardiomypathy associated gene 5
4247	16988	29612	2.26	1.0E-129	AW755254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5 Cardiomypathy associated gene 5

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6000	18781	31742	3.73	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
6816	19477	32489	0.56	1.0E-129	BE569993.1	EST_HUMAN	601449740F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3853888 5'
6816	19477	32500	0.56	1.0E-129	BE569993.1	EST_HUMAN	601449740F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3853888 5'
7027	19719	32776	4.15	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
7090	19779	32844	3.93	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
7428	20105	33191	2.49	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
7428	20105	33192	2.49	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
8217	20911		3.94	1.0E-129	AB014534.1	NT	Homo sapiens mRNA for KIAA0834 protein, partial cds
9979	22627	35635	0.97	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9979	22627	35636	0.97	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10523	23169	36396	0.57	1.0E-129	AA682200.1	EST_HUMAN	ae91c07.91 Striatum schiz brain S11 Homo sapiens cDNA clone IMAGE:1020288 3'
11186	23851	37137	4	1.0E-129	AA625526.1	EST_HUMAN	af72607.r1 Soares_NhrMPu_S1 Homo sapiens cDNA clone IMAGE:1047589 5'
11269	19779	32844	6.57	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
11615	24213	37537	1.38	1.0E-129	AU143115.1	EST_HUMAN	AU143115 Y79AA1 Homo sapiens cDNA clone Y79AA1001410 5'
11615	24213	37538	1.38	1.0E-129	AU143115.1	EST_HUMAN	AU143115 Y79AA1 Homo sapiens cDNA clone Y79AA1001410 5'
12104	24601		1.79	1.0E-129	H83155.1	EST_HUMAN	y49c05.1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:199112 5' similar to
12483	24842		2.66	1.0E-129	AL120739.1	EST_HUMAN	SP-B48150 B48150 HP-28=HIBERNATION-RELATED PROTEIN - TAMIAS ASIATICUS=ASIAN ;
74	12901	25538	1.3	1.0E-130	7705530	NT	Homo sapiens hypothetical protein (HSPC242), mRNA
1147	13902	26564	0.69	1.0E-130	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1681	14407	27098	11.38	1.0E-130	BE275192.1	EST_HUMAN	601121985F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346366 5'
1681	14407	27099	11.38	1.0E-130	BE275192.1	EST_HUMAN	601121985F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346366 5'
1976	14712		3.08	1.0E-130	X04092.1	NT	Human gene for catalase (EC 1.11.1.6) exon 9 mapping to chromosome 11, band p13
2773	15478		5.37	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
2881	15848	28290	1.17	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3885466 5'
2881	15848	28291	1.17	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3885466 5'
3566	16320	28968	1.09	1.0E-130	AF240898.1	NT	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3750	15648	28290	5.36	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3885466 5'
3750	15648	28291	5.36	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3885466 5'
3916	16866	29305	1.92	1.0E-130	AW503580.1	EST_HUMAN	UI-HF-BNO-aky-g-06-0-J1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078731 5'
4053	16798	29428	1.5	1.0E-130	M97710.1	NT	Human T-cell receptor (V alpha 22.1, J alpha RPLM4285-variant, C alpha 1) mRNA
4501	17237	29869	6.76	1.0E-130	AW843993.1	EST_HUMAN	CM4-CN0045-180200-511-f02 CN0045 Homo sapiens cDNA
5038	17757	30371	1.07	1.0E-130	AW363299.1	EST_HUMAN	RC0-CT0318-201199-031-at11 CT0318 Homo sapiens cDNA
5038	17757	30372	1.07	1.0E-130	AW363299.1	EST_HUMAN	RC0-CT0318-201199-031-at11 CT0318 Homo sapiens cDNA

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6629	19391	32405	0.55	1.0E-130	X57825.1	NT	Human germline immunoglobulin lambda light chain pseudogene (VII.1)
6723	19557	32587	0.81	1.0E-130	AW843875.1	EST_HUMAN	CMO-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6723	19557	32588	0.81	1.0E-130	AW843875.1	EST_HUMAN	CMO-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6738	18570	32802	0.75	1.0E-130	11425446	NT	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7154	19841	32910	2.62	1.0E-130	11416777	NT	Homo sapiens solute carrier family 8 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
8582	21274		0.45	1.0E-130	AF008551.1	NT	Homo sapiens aurora-related kinase 1 (ARK1), mRNA, complete cds
8718	21410	34553	2.39	1.0E-130	AW956242.1	EST_HUMAN	EST388312 MAGS resequences, MAGD Homo sapiens cDNA
9114	21802	34987	1.64	1.0E-130	AB037756.1	NT	Homo sapiens mRNA for KIAA1335 protein, partial cds
9833	22484		1.25	1.0E-130	AW103454.1	EST_HUMAN	xd36e06.x1 NCJ_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2595874 3'
10463	23109	36340	0.51	1.0E-130	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
10463	23109	36341	0.51	1.0E-130	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
11242	23804	37184	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11242	23804	37185	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11703	24298	37624	2.67	1.0E-130	4504142	NT	Homo sapiens glutamate receptor, metabotropic 5 (GRM5), mRNA
12759	15478		1.56	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4	12832	25445	1.9	0.0E+00	AA228126.1	EST_HUMAN	zr58c04.1 Soares_NhhMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811
4	12832	25446	1.9	0.0E+00	AA228126.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN ;
7	12834	25449	1.02	0.0E+00	4885136	NT	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA
14	12841	25454	0.72	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
14	12841	25455	0.72	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
20	12848	25482	6.7	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
20	12848	25483	6.7	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
25	12853	25488	17.04	0.0E+00	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
33	12851	25478	1.19	0.0E+00	5802997	NT	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA
35	12863	25481	0.82	0.0E+00	M86600.1	NT	Human heparin cofactor II (HCF2) gene, exons 1 through 5
39	12867	25486	4.22	0.0E+00	6857825	NT	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA
55	12884	25512	0.76	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
55	12884	25513	0.76	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
56	12885	25514	3.04	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (TFujiiwara) Homo sapiens cDNA clone GEN-516H08 5'
56	12885	25515	3.04	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (TFujiiwara) Homo sapiens cDNA clone GEN-516H08 5'
57	12886	25516	5.76	0.0E+00	L16558.1	NT	Human ribosomal protein L7 (RPL7), mRNA, complete cds



Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
59	12888	25519	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07.3'
59	12888	25520	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07.3'
63	12891	25524	1.5	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
65	12893		0.91	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
73	12900	25536	10.36	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
73	12900	25537	10.36	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25536	10.18	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25537	10.18	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
80	12906	25544	0.78	0.0E+00	4501850	NT	Homo sapiens amiloride binding protein 1 (amine oxidase (copper-containing) (ABP1), nuclear gene encoding mitochondrial protein, mRNA
81	12907		15.25	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
90	12916	25553	17.88	0.0E+00	5016088	NT	Homo sapiens actin, beta (ACTB) mRNA
93	12919	25556	23.26	0.0E+00	U89277.1	NT	Human polyhormetic 1 homolog (HPH1) mRNA, partial cds
98	12925	25562	3.51	0.0E+00	A1114743.1	EST_HUMAN	HA1347 Human fetal liver cDNA library Homo sapiens cDNA
100	12926	25563	1.72	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
105	12928	25566	1.33	0.0E+00	X91213.1	NT	H. sapiens ncx1 gene (exon 2)
113	12935	25572	0.89	0.0E+00	A1623701.1	EST_HUMAN	ts38b05.x1 NCI CGAP U14 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.
114	12935	25572	1.47	0.0E+00	A1623701.1	EST_HUMAN	ts38b05.x1 NCI CGAP U14 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.
115	15513	25573	1.48	0.0E+00	N36040.1	EST_HUMAN	yy01h09.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270017 5'
115	15513	25574	1.48	0.0E+00	N36040.1	EST_HUMAN	yy01h09.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270017 5'
128	12943	25586	4.38	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
128	12943	25587	4.38	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
136	12950	25593	1.29	0.0E+00	T56945.1	EST_HUMAN	ye83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
136	12950	25594	1.29	0.0E+00	T56945.1	EST_HUMAN	ye83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
149	12964		8.88	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
153	12968	25609	2.1	0.0E+00	BF036881.1	EST_HUMAN	601460375F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863803 5'
155	12970		25.83	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
158	12973	25612	1	0.0E+00	AF111168.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds, and unknown genes
160	12975	25613	1.15	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
161	12975	25613	0.88	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
162	12976	25614	5.4	0.0E+00	W73973.1	EST_HUMAN	z062b05.r1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:345201 5' similar to gb:X16282_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);

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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
163	12977	25815		0.91	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
163	12977	25816	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
164	12978	25817	1.42	0.0E+00	AF244088.1	NT	Homo sapiens zinc finger protein mRNA, complete cds
167	12981	25820	29.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
167	12981	25821	29.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
176	12988	25827	5.95	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z CE22631.1
178	12988	25828	5.95	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z CE22631.1
181	12993	25831	3.06	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
181	12993	25832	3.05	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
189	13002	25843	67.77	0.0E+00	D50659.1	NT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene
194	13007	25848	3.74	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen set14-3 mRNA, complete cds
194	13007	25849	3.74	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen set14-3 mRNA, complete cds
198	13009	25851	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
198	13009	25852	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
205	15537	25858	9.26	0.0E+00	AI587308.1	EST_HUMAN	lq04f08.x1 NCI_CGAP_U03 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN 1 (HUMAN)
205	15537	25859	9.26	0.0E+00	AI587308.1	EST_HUMAN	lq04f08.x1 NCI_CGAP_U03 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN 1 (HUMAN)
207	13019	25861	3.08	0.0E+00	AF199658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
209	13021		23.37	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
210	13022		4.72	0.0E+00	AF132000.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
214	13026	25864	9.19	0.0E+00	AB018284.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
215	13026	25864	8.34	0.0E+00	AB018284.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
216	13027	25865	3.5	0.0E+00	6878444	NT	Mus musculus testis-specific protein, Y-encoded-like (Tspy), mRNA
228	13041	25878	1.23	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
229	13041	25879	1.23	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
231	13042	25882	3.97	0.0E+00	5453805	NT	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
233	13044		6.94	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
240	13049	25888	3.85	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
242	13051	25891	1.71	0.0E+00	X89772.1	NT	H sapiens mRNA for interferon alpha/beta receptor (long form)
250	13059		9.14	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
263	13071	25710	1.68	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
263	13071	25711	1.68	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
265	13073	25713	3.07	0.0E+00	7706028	NT	Homo sapiens hypothetical protein (LOC51250), mRNA
276	13083		1.19	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
277	13084	25726	3.28	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
277	13084	25727	3.28	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
278	13085		0.78	0.0E+00	AW846293.1	EST_HUMAN	IL2-CT0031-181199-020-B03 CT0031 Homo sapiens cDNA
287	13093	25734	6.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
287	13093	25735	6.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
297	13103	25744	4.97	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
298	13104	25745	4.63	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
299	15540		4.23	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
300	13105		3.76	0.0E+00	AA480002.1	EST_HUMAN	zvl8c06.1l Series_NhrMPu_S1 Homo sapiens cDNA clone IMAGE:753994 5'
301	13106	25746	18.93	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
302	13106	25746	16.53	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
306	13110	25750	2.33	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
319	13122	25759	4.97	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
320	13122	25759	6.23	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
335	13136	25771	2.66	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLL T4) mRNA
338	13139	25775	1.71	0.0E+00	4827057	NT	Homo sapiens X-box binding protein 1 (XBP-1) mRNA
341	13142	25780	1.45	0.0E+00	U71600.1	NT	Human zinc finger protein zfp31 (zfp31) mRNA, partial cds
346	13146	25784	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
346	13146	25785	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
347	15541	25786	3.84	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
349	13148	25788	2.33	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
352	13151	25792	0.94	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
353	13152	25793	4.1	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
354	13152	25793	1.9	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
356	13154	25795	1.89	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
367	13163	25806	1.07	0.0E+00	AU134963.1	EST_HUMAN	AU134963 PLACET Homo sapiens cDNA clone PLACE1000899 5'
378	13203	25849	8.31	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
379	13204	25850	1.54	0.0E+00	A1363014.1	EST_HUMAN	qy61h05.x1 NCL CGAP_Bn26 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gb.X54199
383	13170	25813	1.83	0.0E+00	AW754180.1	EST_HUMAN	PHOSPHORIBOSYLAMINE-GLYCINE LIASE (HUMAN); RC2-CT0320-300100-016-a09 CT0320 Homo sapiens cDNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
386	13172	25816	1.58	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25817	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25818	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
388	13174	25819	1.17	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
389	13175	25820	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
389	13175	25821	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
390	13176	25822	2.77	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
391	13177	25823	0.84	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
392	13178	25824	1.35	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
392	13178	25825	1.35	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
393	13178	25824	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
393	13178	25825	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
397	13182		28.13	0.0E+00	4506608	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
411	12822	25435	1.5	0.0E+00	R17795.1	EST_HUMAN	yg09e02.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31652 5'
419	13205	25851	1.31	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminimidazole synthetase (GART) mRNA
420	13206		3.18	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
421	13207	25852	3.93	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
422	13208	25853	5.45	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
422	13208	25854	6.45	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
423	13209	25855	4.02	0.0E+00	AF193607.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds
433	13219	25865	1.99	0.0E+00	4557878	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
438	13224		2.01	0.0E+00	AA324262.1	EST_HUMAN	EST27054 Cerebellum II Homo sapiens cDNA 5' end
439	13225		0.97	0.0E+00	BE254447.1	EST_HUMAN	601111520F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352348 5'
455	13241	25879	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
455	13241	25880	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
461	13246	25888	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
461	13246	25889	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
471	13257	25895	2.64	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
472	13258	25896	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
472	13258	25897	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
481	13268	25902	3.46	0.0E+00	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
483	13268	25904	1.97	0.0E+00	AU132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4000837 5'
491	13276	25910	2.66	0.0E+00	BE385144.1	EST_HUMAN	601274651F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615756 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
492	15543	25911	1.11	0.0E+00	AW938825.1	EST_HUMAN	PMO-DT0065-130400-002-c06 DT0065 Homo sapiens cDNA
494	13278	25913	1.33	0.0E+00	AL117233.1	NT	Novel human gene mapping to chromosome 1
495	13279	25914	1.27	0.0E+00	8923955	NT	Homo sapiens PC326 protein (PC326), mRNA
499	13283		0.77	0.0E+00	BF373403.1	EST_HUMAN	IL2-FT0159-070800-120-F07 FT0159 Homo sapiens cDNA
506	13280	25924	5.37	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
513	15544	25928	1.29	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0635-160400-142-h05 BT0635 Homo sapiens cDNA
518	13302	25934	1.14	0.0E+00	BF028005.1	EST_HUMAN	80176458F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996998 5'
524	13308	25941	1.68	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
527	13311	25944	27.68	0.0E+00	6006030	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCER1L) mRNA
528	13312	25945	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
528	13312	25946	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
530	13314	25948	0.97	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
530	13314	25949	0.97	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
535	13318		5.82	0.0E+00	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
543	13326	25958	1.89	0.0E+00	AW135324.1	EST_HUMAN	UI-H-B11-acb-h-04-0-U1 et NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2713951 3'
553	13336		8	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
572	13353	25982	2.63	0.0E+00	5174742	NT	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRCF1), nuclear gene encoding mitochondrial protein, mRNA
585	13365		7	0.0E+00	J04066.1	NT	Human apolipoprotein A-I (ApoA-I) gene, exon 1
588	13368	25995	1.83	0.0E+00	BF104898.1	EST_HUMAN	60182262F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'
590	13370	25998	0.98	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
590	13370	25999	0.98	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
595	13373	26002	0.76	0.0E+00	4501854	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
600	13378	26008	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
600	13378	26009	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
609	13387	26018	3.18	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
612	13390	26021	1.2	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26022	3.83	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26023	3.83	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26024	0.92	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26025	0.92	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
620	13399	26034	1.35	0.0E+00	AA3393486.1	EST_HUMAN	z660c07.r Soares, testis, NHT Homo sapiens cDNA clone IMAGE:728732 5'
624	13403	26038	10.1	0.0E+00	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
628	13407	26041	0.76	0.0E+00	W78811.1	EST_HUMAN	zh51b04.r1 Soares fetal_liver_spleen_1NPLS_S1 Homo sapiens cDNA clone IMAGE:415587 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
628	13407	26042	0.76	0.0E+00	W78811.1	EST_HUMAN	zh51b04.r1 Soares fetal_liver_spleen_1NPLS_S1 Homo sapiens cDNA clone IMAGE:415587 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
631	13410		4.99	0.0E+00	4885528	NT	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA
638	13417	26054	2.88	0.0E+00	6006003	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B) mRNA
640	13419	26057	1.17	0.0E+00	5031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
643	13422	26061	2.53	0.0E+00	U05235.1	NT	Human neutral amino acid transporter (ASCT1) gene, exon 8
647	13426	26064	1.07	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
647	13428	26065	1.07	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
653	13431	26070	4.98	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
653	13431	26071	4.98	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
659	15547		1.15	0.0E+00	X57147.1	NT	Human endogenous retrovirus phiE1 (ERV9)
667	13443	26084	10.4	0.0E+00	4504424	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA
672	13448	26088	4.49	0.0E+00	AB029012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
681	13456	26101	2.43	0.0E+00	7657488	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
693	13468	26115	9.24	0.0E+00	AA614537.1	EST_HUMAN	np49001.s1 NCL CGAP_Br1.1 Homo sapiens cDNA clone IMAGE:1129633 3' similar to gb:X57352 INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);
698	13471	26119	4.34	0.0E+00	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
698	13471	26120	4.34	0.0E+00	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
706	13481	26129	1.71	0.0E+00	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
712	13486	26135	4.95	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
712	13486	26138	4.95	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
714	13488	26139	12.29	0.0E+00	11545800	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
719	13493	26146	2.12	0.0E+00	BE241577.1	EST_HUMAN	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0779
739	13512	26170	1.07	0.0E+00	AF226990.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
739	13512	26171	1.07	0.0E+00	AF226990.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
740	13513	26172	2.41	0.0E+00	AF170492.1	NT	Homo sapiens chloride channel ClC4 (CLC4) mRNA, complete cds
743	13516	26175	1.07	0.0E+00	J03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
743	13516	26176	1.07	0.0E+00	J03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
746	13519	26177	1.38	0.0E+00	6912749	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
748	15551	26179	1.86	0.0E+00	D30612.1	NT	Homo sapiens mRNA for repressor protein, partial cds
749	13521	26180	3.01	0.0E+00	BE869735.1	EST_HUMAN	601445647F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'

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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
752	13524	26183	3.51	0.0E+00	R48915.1	EST_HUMAN	y69g08.r1 Soares breast 2NBHBst Homo sapiens cDNA clone IMAGE:164046 5'
753	13525	26184	2.4	0.0E+00	5032086	NT	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA
761	13533	26192	2.07	0.0E+00	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
764	13537	26196	2.34	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
775	13547	26208	1.18	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
776	13547	26209	1.18	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
780	13552	26213	2.13	0.0E+00	X89772.1	NT	H. sapiens mRNA for interferon alpha/beta receptor (long form)
784	13556	26217	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
784	13556	26218	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
788	13560	26222	9.88	0.0E+00	5174478	NT	Homo sapiens perlecanin (PCNT) mRNA
789	13561	26222	11.63	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
805	13577	26242	1.96	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
806	13578	26243	4.28	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
808	13580	26245	2.81	0.0E+00	4557686	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 1 (KCNE1) mRNA
814	13585	26251	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
819	13590	26257	1.58	0.0E+00	4503854	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
823	13593	26262	2.09	0.0E+00	4507500	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
823	13593	26263	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
830	13600		1.32	0.0E+00	AF027153.1	NT	Homo sapiens sodium/myo-inositol cotransporter (SLC5A3) gene, complete cds
834	13604	26274	4.82	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
834	13604	26275	4.62	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
835	13605	26276	9.56	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
836	13606	26277	4.34	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
837	13607	26278	0.8	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
841	13611	26281	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
841	13611	26282	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
842	13612	26283	2.45	0.0E+00	AA53272.1	EST_HUMAN	U66407.s1 NCI CGAP_P10 Homo sapiens cDNA clone IMAGE:997453
842	13612	26284	2.45	0.0E+00	AA53272.1	EST_HUMAN	U66407.s1 NCI CGAP_P10 Homo sapiens cDNA clone IMAGE:997453
843	13613		9.44	0.0E+00	BF677694.1	EST_HUMAN	U66407.s1 NCI CGAP_P10 Homo sapiens cDNA clone IMAGE:997453
847	13617	26285	1.94	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
847	13617	26286	1.94	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26287	3.31	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26288	3.31	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
871	13640	26311	0.91	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
878	13647	26318	2.57	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
878	13647	26317	2.57	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
888	13657	26328	6.48	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
888	13668		4.99	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
900	13668		8.49	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
901	13668	26332	1.21	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1-antichymotrypsin precursor, mRNA, partial cds
902	13669	26333	1.78	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (P14) gene, exons 1-4, complete cds
905	13672	26338	1.05	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
905	13672	26337	1.05	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
926	13683	26356	2.98	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0994 protein, partial cds
926	13683	26357	2.98	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0994 protein, partial cds
931	13698	26362	1.19	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
932	13698	26363	9.95	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
933	13700	26364	0.9	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
934	13701	26365	2.18	0.0E+00	4507430	NT	Homo sapiens thymotrophic embryonic factor (TEF), mRNA
934	13701	26366	2.18	0.0E+00	4507430	NT	Homo sapiens thymotrophic embryonic factor (TEF), mRNA
942	15556	26373	3.38	0.0E+00	A1001948.1	EST_HUMAN	os98e03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
942	15556	26374	3.38	0.0E+00	A1001948.1	EST_HUMAN	os98e03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
943	13709	26375		0.0E+00		NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
954	13719	26385	3.18	0.0E+00	AB030568.1	NT	Homo sapiens mRNA for PSP24, complete cds
962	13727	26391	1.11	0.0E+00	BF366874.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
962	13727	26392	1.11	0.0E+00	BF366874.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
962	13727	26393	1.11	0.0E+00	BF366874.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
963	13728	26394	1.69	0.0E+00	X62207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
963	13728	26395	1.69	0.0E+00	X62207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
972	13737	26402	2.03	0.0E+00	4757969	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
984	13748	26410	1.66	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
985	13749	26411	50.9	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
986	13749	26411	25.17	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
989	13752		5.52	0.0E+00	AF188490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
990	13752		8.64	0.0E+00	AF188490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
993	13755	26416	1.17	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene



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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
994	13755	26416	1.83	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
995	13755	26416	2.3	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
996	13756	26417	3.76	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
999	13759	26420	3.08	0.0E+00	7691685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1003	13763	26424	2.5	0.0E+00	5803114	NT	Homo sapiens Inner membrane protein, mitochondrial (mifflin) (MMIT), mRNA
1004	13764		1.43	0.0E+00	AA458680.1	EST_HUMAN	aa8607.s1 Stratiogene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838236 3' similar to SW:PRS8_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;
1007	13767	26428	1.9	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1007	13767	26429	1.9	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1010	13770		3.55	0.0E+00	8922833	NT	Homo sapiens hypothetical protein FLJ111196 (FLJ11196), mRNA
1025	13785	26445	2.49	0.0E+00	4758599	NT	Homo sapiens heat shock 70kD protein 98 (mortalin-2) (HSPA98) mRNA
1043	13802	26460	1.89	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1043	13802	26461	1.89	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1047	13806	26465	3.63	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1047	13806	26466	3.63	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1048	13807	26467	119.02	0.0E+00	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
1050	13809		1.19	0.0E+00	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1052	13811	26471	3.52	0.0E+00	5174384	NT	Homo sapiens alkylation repair, alkB homolog (ABH), mRNA
1050	13818	26480	2.3	0.0E+00	4758117	NT	Homo sapiens Death associated protein 3 (DAP3) mRNA
1074	13832	26480	2.2	0.0E+00	BE005208.1	EST_HUMAN	MIR-BN0115-200300-003-n08 BN0115 Homo sapiens cDNA
1097	13855	26514	6.04	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1097	13855	26515	6.04	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1110	13867	26526	0.9	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1110	13867	26526	0.9	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1111	13868	26527	4.27	0.0E+00	4506712	NT	Homo sapiens ribosomal protein S27a (RPS27A) mRNA
1113	13870	26529	0.86	0.0E+00	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1116	13873	26532	23.77	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1118	13875	26533	44.3	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1119	13876	26534	5.51	0.0E+00	7957468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1119	13876	26535	5.51	0.0E+00	7957468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1122	13878	26537	1.1	0.0E+00	7706500	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51729), mRNA
1123	13879	26538	0.87	0.0E+00	X95826.1	NT	H. sapiens ART4 gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1123	13879	26539	0.87	0.0E+00	X95826.1	NT	H.sapiens ART4 gene
1124	13880	26540	0.92	0.0E+00	AI147650.1	EST_HUMAN	qb22df10.Xt Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1697011 3'
1126	13882	26542	1.56	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1133	13889	26548	0.71	0.0E+00	475808.1	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1133	13889	26548	0.71	0.0E+00	475808.1	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1134	13890	26550	1.39	0.0E+00	966844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
1145	13900	26561	6.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1145	13900	26562	6.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1148	13903	26565	1.85	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1155	13910	26574	0.76	0.0E+00	4557687	NT	Homo sapiens keratin 18 (KRT18) mRNA
1167	13921	26583	4.54	0.0E+00	AF034996.1	NT	Homo sapiens amphiphysin 1 mRNA, alternative splice isoform, complete cds
1167	13939	26617	1.52	0.0E+00	7657336	NT	Homo sapiens mutL (E. coli) homolog 3 (MLH3), mRNA
1201	13953	26617	1.7	0.0E+00	8922593	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
1204	13956	26620	1.53	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1204	13956	26621	1.53	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1205	13957	26622	1.77	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1206	15562	26623	1.53	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1224	13974	26646	9.12	0.0E+00	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
1225	13975	26647	1.71	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1243	13992		2.33	0.0E+00	Y18000.1	NT	Homo sapiens NF2 gene
1251	14000	26667	23.59	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1258	14007	26676	3.07	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSOR9) mRNA, complete cds
1265	14014	26681	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1265	14014	26682	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1277	14027	26695	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1277	14027	26696	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1277	14027	26697	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1278	14028		3.78	0.0E+00	AF096156.1	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1288	15564	26709	1.63	0.0E+00	7657529	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1288	15564	26710	1.63	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1293	14042	26715	2.03	0.0E+00	5803146	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1294	14043	26716	0.89	0.0E+00	4508004	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1296	14045	26717	1.12	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1297	14046	26718	0.72	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA

Table 4

## Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1299	14048	26720	4.71	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1300	14049	26721	2.04	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1301	14050	26722	5.88	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1302	14051	26723	3.01	0.0E+00	8667387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1302	14051	26724	3.01	0.0E+00	8667387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1314	14062	26737	1.82	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
1387	14134	26809	1.38	0.0E+00	AJ250014.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyd gene
1393	14140	26817	3.39	0.0E+00	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
1396	14143	26821	1.59	0.0E+00	AJ208756.1	EST_HUMAN	qg38b06.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837427 3' similar to WP:T27A1.5
1397	14144	26822	13.21	0.0E+00	6042206	NT	RAN, member RAS oncogene family-Homo sapiens RAN, member RAS oncogene family (RAN), mRNA
1406	14153	26833	5	0.0E+00	4505545	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1406	14153	26834	5	0.0E+00	4505545	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1408	14155	26837	4.08	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1408	14155	26838	4.08	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1410	14157	26839	4.59	0.0E+00	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1420	14168	26852	3.02	0.0E+00	AF038280.1	NT	Homo sapiens alpha-L-fucosyltransferase (alpha-L-fucT) gene, exon 7
1431	14178	26863	5.39	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1431	14178	26864	5.39	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1436	14183	26868	17.93	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1436	14183	26869	17.93	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1446	14193	26876	2.59	0.0E+00	AL132999.1	NT	Novel human gene on chromosome 20
1447	14194	26877	1.82	0.0E+00	AL137764.1	NT	Novel human gene mapping to chromosome 1
1451	14198	26882	1.73	0.0E+00	D87077.1	NT	Human mRNA for KIAA0240 gene, partial cds
1454	14201	26885	4.53	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1456	14203	26887	1.55	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1456	14203	26888	1.55	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1460	14207	26893	0.97	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1460	14207	26894	0.97	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1500	14246	26932	1.37	0.0E+00	7706434	NT	Homo sapiens HDG for homolog of Drosophila headcase (LOC51696), mRNA
1516	14263	26949	1.21	0.0E+00	AW959687.1	EST_HUMAN	EST371757 MAGE sequences, MAGF Homo sapiens cDNA
1517	14264	26950	1.76	0.0E+00	AA481172.1	EST_HUMAN	aa34a03.t1 NCI_CQAP_G081 Homo sapiens cDNA clone IMAGE:815116 5'
1522	14269	26953	49.82	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1522	14269	26954	49.82	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1524	14271	26957	1.24	0.0E+00	AW976097.1	EST_HUMAN	EST388208 MAGE resequences, MAGN Homo sapiens cDNA
1524	14271	26958	1.24	0.0E+00	AW976097.1	EST_HUMAN	EST388208 MAGE resequences, MAGN Homo sapiens cDNA
1525	14272	26959	5.49	0.0E+00	D10884.1	NT	Bovine mRNA for neurocalcin
1527	14274		2.07	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1528	14275	26962	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1528	14275	26963	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1530	14277	26965	3.3	0.0E+00	7662405	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
1531	14278		7.29	0.0E+00	7656972	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
1537	14284	26971	1.84	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1540	14287	26973	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1540	14287	26974	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1541	15572		11.72	0.0E+00	4506664	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
1542	14288	26975	11.72	0.0E+00	M14199.1	NT	Human laminin receptor (2H5 epitope) mRNA, 5' end
1553	14300	26988	2.86	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1553	14300	26989	2.86	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1555	14302	26990	11.7	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1563	14310		1.21	0.0E+00	D00333.1	NT	human c-yes-2 gene
1574	14321	27007	1.65	0.0E+00	Z83738.1	NT	H. sapiens hH2B/e gene
1575	14322	27008	1.59	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1576	14322	27009	1.59	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1576	14323	27010	11.18	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKC Homo sapiens cDNA clone GKCB0F02 5'
1576	14323	27011	11.18	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKC Homo sapiens cDNA clone GKCB0F02 5'
1579	15573	27014	9.85	0.0E+00	AB040905.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1583	14329	27015	1.63	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1585	14331	27018	9.78	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1585	14331	27019	9.78	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1587	14333	27020	42.75	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1587	14333	27021	42.75	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1589	14335	27023	7.94	0.0E+00	M91803.1	NT	Human sodium channel mRNA
1604	14360	27039	5.85	0.0E+00	H26973.1	EST_HUMAN	yo76c05.s1 Soares adult brain N2b4HB56Y Homo sapiens cDNA clone IMAGE:183848 3'
1614	14361	27051	2	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1614	14361	27052	2	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1659	14405	27095	1.25	0.0E+00	BE144364.1	EST_HUMAN	MR0-HT0166-191199-004-b11 HT0166 Homo sapiens cDNA
1659	14405	27096	1.25	0.0E+00	BE144364.1	EST_HUMAN	MR0-HT0166-191199-004-b11 HT0166 Homo sapiens cDNA
1663	14409	27100	1.68	0.0E+00	AI768104.1	EST_HUMAN	wg81b07.x1 Soares_NSF_F8_9W_OT_PA_S1 Homo sapiens cDNA clone IMAGE:2371477 3' similar to TR:Q62788 Q62788 CYS2HIS2 ZINC FINGER PROTEIN. ;
1664	14410	27101	1.2	0.0E+00	4758513	NT	Homo sapiens hematopoietic-derived zinc finger protein (HD-ZNF1) mRNA
1665	14411	27102	2.61	0.0E+00	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1669	14414	27106	1.76	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1669	14414	27107	1.76	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1671	14416	27109	1.35	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1672	14417	27110	1.5	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG) mRNA
1675	14420	27113	1.12	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NC1 CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:O95147 O95147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1675	14420	27114	1.12	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NC1 CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:O95147 O95147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1677	14421	27116	3.24	0.0E+00	4557610	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1680	14424	27119	3.18	0.0E+00	H30132.1	EST_HUMAN	yc59e08.r1 Soares breast 3NHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099 GAMMA-GLUTAMYL-TRANSEPTIDASE 5 PRECURSOR (HUMAN);
1680	14424	27120	3.18	0.0E+00	H30132.1	EST_HUMAN	yc59e08.r1 Soares breast 3NHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099 GAMMA-GLUTAMYL-TRANSEPTIDASE 5 PRECURSOR (HUMAN);
1682	14426	27122	1.32	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1682	14426	27123	1.32	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1685	14429		13.71	0.0E+00	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1693	14437	27133	1.11	0.0E+00	AF169963.1	NT	Homo sapiens WNT16 protein (WNT16) mRNA, complete cds
1695	14438	27136	3.53	0.0E+00	8923841	NT	Homo sapiens FOXJ2 forkhead factor (LOC55810), mRNA
1702	14445	27145	1.11	0.0E+00	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1) mRNA
1708	14451	27152	4.08	0.0E+00	AB026542.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
1710	14453		2.19	0.0E+00	S84400.1	NT	TGR zeta [human, Genomic/mRNA, 365 nt, segment 1 of 8]
1725	15577	27167	1.16	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
1739	14481	27181	1.93	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
1778	15578		6.66	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1782	14523	27228	3.37	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1782	14523	27229	3.37	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1784	14525	27232	1.42	0.0E+00	U63963.1	NT	Human CSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds
1787	14528		1.2	0.0E+00	W76571.1	EST_HUMAN	zd66g09.r1 Soares_fetal heart NbH19W Homo sapiens cDNA clone IMAGE:345684 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1788	15579	27236	2.74	0.0E+00	4505332	NT	Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NASP) mRNA
1800	14540	27251	5.68	0.0E+00	U14957.1	NT	Human ribosomal protein L21 mRNA, complete cds
1802	14542	27254	2.79	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
1803	14543	27255	4.07	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1803	14543	27256	4.07	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1803	14543	27257	4.07	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1812	14552	27266	1.63	0.0E+00	4503328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
1826	14565	27276	5.92	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1) mRNA
1826	14565	27277	5.82	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1) mRNA
1836	14575	27287	1.12	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1836	14575	27288	1.12	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1840	14578	27290	4.35	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1840	14578	27291	4.35	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1841	14579	27292	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1841	14579	27293	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1844	14582	27296	1.46	0.0E+00	AW207280.1	EST_HUMAN	UI-H-B11-afn-f07-Q-U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1844	14582	27297	1.46	0.0E+00	AW207280.1	EST_HUMAN	UI-H-B11-afn-f07-Q-U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1868	14606	27316	3.49	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3547239 5'
1868	14606	27317	3.49	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3547239 5'
1887	14824	27334	0.93	0.0E+00	BE006292.1	EST_HUMAN	RC2-BN0128-200300-012-b04 BN0126 Homo sapiens cDNA
1916	14653	27362	2.16	0.0E+00	4505384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1916	14653	27363	2.16	0.0E+00	4505384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1924	14661	27362	1.22	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1925	15582	27372	1.19	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1925	15582	27373	1.19	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1930	14666	27390	1.53	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3) mRNA
1930	14666	27381	1.53	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3) mRNA
1933	14668	27383	1.42	0.0E+00	7657036	NT	Homo sapiens death receptor 6 (DR6) mRNA

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1935	14670		4.27	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1940	14675		1.35	0.0E+00	M55632.1	NT	Human topoisomerase [pseudogene 1]
1949	14684	27396	1.94	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1949	14684	27397	1.94	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1959	14695		1.15	0.0E+00	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
1961	14697	27410	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1961	14697	27411	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1962	14698	27412	2.49	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1962	14698	27413	2.49	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1973	14709	27427	1.36	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1973	14709	27428	1.36	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1979	14715	27432	1.69	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1979	14715	27433	1.69	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1981	14717	27434	1.57	0.0E+00	AW193024.1	EST_HUMAN	x69b01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2879913 3'
1981	14717	27435	1.57	0.0E+00	AW193024.1	EST_HUMAN	x69b01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2879913 3'
1982	14718	27436	5.96	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1982	14718	27437	5.96	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1984	14720	27439	2	0.0E+00	7662095	NT	Homo sapiens KIAA0408 gene product (KIAA0408), mRNA
1985	14721	27440	1.19	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1986	14722	27441	1.58	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1986	14722	27442	1.58	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1993	14729	27451	3.75	0.0E+00	AB040948.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
2014	14749	27476	1.02	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2014	14749	27477	1.02	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2046	14779	27507	1.64	0.0E+00	7706742	NT	Homo sapiens TP53TG3a (TP53TG3a), mRNA
2052	14785	27511	4.13	0.0E+00	AU140831.1	EST_HUMAN	AU140831 PLACE4 Homo sapiens cDNA clone PLACE4000321 5'
2053	14755	26637	1.55	0.0E+00	7705585	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2053	14755	26638	1.55	0.0E+00	7705585	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2055	14787	27513	2.04	0.0E+00	AA077589.1	EST_HUMAN	7822E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7822E10
2055	14787	27514	2.04	0.0E+00	AA077589.1	EST_HUMAN	7822E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7822E10
2057	14789		2.41	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2059	14791		1.91	0.0E+00	4585863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2060	14792	27517	0.97	0.0E+00	Z42399.1	EST_HUMAN	HSC01C021 normalized infant brain cDNA Homo sapiens cDNA clone c-01c02

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2062	14794		1.78	0.0E+00	AI244247.1	EST_HUMAN	q160108.x1 NCI_CGAP_UJ2 Homo sapiens cDNA clone IMAGE:198871 3' similar to contains Alu repetitive element;
2067	14799	27526	3.46	0.0E+00	BE877225.1	EST_HUMAN	601485146F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 5'
2069	14801	27528	1.48	0.0E+00	BF316325.1	EST_HUMAN	601802604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2069	14801	27529	1.48	0.0E+00	BF316325.1	EST_HUMAN	601802604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2072	14804	27532	3.07	0.0E+00	BE897125.1	EST_HUMAN	RC3-CT0413-270700-022-410 CT0413 Homo sapiens cDNA
2072	14804	27533	3.07	0.0E+00	BE897125.1	EST_HUMAN	RC3-CT0413-270700-022-410 CT0413 Homo sapiens cDNA
2080	14812	27544	3.71	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2080	14812	27545	3.71	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2086	14817	27549	1.36	0.0E+00	4758489	EST_HUMAN	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2107	14838		2.06	0.0E+00	BE767964.1	EST_HUMAN	QV1-GN0065-140800-318-ct10 GN0065 Homo sapiens cDNA
2108	14839		1.59	0.0E+00	AF018963.1	NT	Homo sapiens X-linked juvenile retinoschisis protein (XLR51) gene, exon 6 and complete cds
2110	14841	27572	3.76	0.0E+00	BF027562.1	EST_HUMAN	601672066F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5'
2111	14842	27573	1.03	0.0E+00	BE072624.1	EST_HUMAN	PMO-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA
2113	14844	27574	1.06	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2116	14847	27576	1.3	0.0E+00	AW762708.1	EST_HUMAN	IL3-CT0219-271099-022-G10 CT0219 Homo sapiens cDNA
2117	14848	27577	1.47	0.0E+00	L76627.1	NT	Homo sapiens metabotropic glutamate receptor 1 alpha (mGluR1alpha) mRNA, complete cds
2119	14850	27579	6.39	0.0E+00	AI904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2119	14850	27580	6.39	0.0E+00	AI904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2153	14883		1.05	0.0E+00	7657252	NT	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNMB3L), mRNA
2179	14908		1.22	0.0E+00	L14787.1	NT	Human DNA-binding protein mRNA, 3' end
2183	14912	27644	1.05	0.0E+00	BE274886.1	EST_HUMAN	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346688 5'
2185	14914	27647	7.59	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'
2185	14914	27648	7.59	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'
2187	14916	27650	1.4	0.0E+00	AA931981.1	EST_HUMAN	cc32601.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1567896 3'
2191	14920	27654	5.88	0.0E+00	BF344434.1	EST_HUMAN	602014829F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4150734 5'
2192	14921	27655	12.14	0.0E+00	BE748939.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
2196	14925	27659	3.55	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-508 TN0141 Homo sapiens cDNA
2196	14925	27660	3.55	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-508 TN0141 Homo sapiens cDNA
2200	15588	27665	2.04	0.0E+00	BF313617.1	EST_HUMAN	601800281F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129622 5'
2203	14931	27668	1.93	0.0E+00	BE018750.1	EST_HUMAN	b684602.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN;



Table 4  
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2204	14932	27669	1.55	0.0E+00	AA042813.1	EST_HUMAN	zK53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2204	14932	27670	1.55	0.0E+00	AA042813.1	EST_HUMAN	zK53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2212	14940	27678	3.37	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2212	14940	27679	3.37	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2213	14941	27680	2.3	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2213	14941	27681	2.3	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2218	14946		1.37	0.0E+00	U36284.1	NT	Human beta-prime-adaplin (BAM22) gene, exon 16
2238	14964	27704	5.71	0.0E+00	4557566	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2243	14971	27709	2.03	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2250	14978	27717	1.71	0.0E+00	BE895281.1	EST_HUMAN	601433528F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3897457 5'
2253	14981	27720	1.27	0.0E+00	BE805563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2253	14981	27721	1.27	0.0E+00	BE805563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2258	14983	27723	2.35	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
2299	15024	27759	4.02	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2299	15024	27760	4.02	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2300	15025	27761	1.87	0.0E+00	AI076404.1	EST_HUMAN	z009c07.x1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2302	15027	27783	2.33	0.0E+00	AA429001.1	EST_HUMAN	z078a11.1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2302	15027	27764	2.33	0.0E+00	AA429001.1	EST_HUMAN	z078a11.1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2304	15029	27766	1.75	0.0E+00	BF347039.1	EST_HUMAN	602021846F1 NCI_CGAP_Brn87 Homo sapiens cDNA clone IMAGE:4157339 5'
2308	15034	27772	1.52	0.0E+00	L02840.1	NT	Homo sapiens potassium channel K12.1 mRNA, complete cds
2310	15035	27773	1.61	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2310	15035	27774	1.61	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2311	15036	27775	1.39	0.0E+00	6325466	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2317	15042	27780	1.17	0.0E+00	BE678095.1	EST_HUMAN	702a02.x1 NCI_CGAP_GLL1 Homo sapiens cDNA clone IMAGE:3295370 3' similar to TR:O94939 O94939 KIAA0957 PROTEIN;
2320	15045	27782	4.73	0.0E+00	AF044571.1	NT	Homo sapiens phosphatase kinase alpha subunit (PHKA2) gene, exon 32
2321	15046	27783	1.9	0.0E+00	AI625542.1	EST_HUMAN	z078a11.1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:2283182 3'
2325	15050	27785	1.88	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2325	15050	27786	1.88	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2328	15053	27789	1.95	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2328	15053	27790	1.95	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2334	15058	27793	1.24	0.0E+00	7682007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA

Table 4  
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2334	15058	27794	1.24	0.0E+00	7692007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
2348	15071	27807	3.2	0.0E+00	5174878	NT	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA
2352	15074	27811	2.39	0.0E+00	AU131142.1	EST_HUMAN	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002084 5'
2353	15076		4.31	0.0E+00	BE794028.1	EST_HUMAN	60186843F1 NIH_MGC.7 Homo sapiens cDNA clone IMAGE:3941003 5'
2354	15078	27812	1.51	0.0E+00	AW867076.1	EST_HUMAN	MR1-SN0033-120400-002-a04 SN0033 Homo sapiens cDNA
2355	15077	27813	2.99	0.0E+00	7692017	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2356	15078	27814	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2356	15078	27815	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2357	15079		5.25	0.0E+00	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
2359	15081	27817	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27818	7.96	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27819	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2360	15082	27820	0.98	0.0E+00	8923089	NT	Homo sapiens hypothetical protein FLJ20081 (FLJ20081), mRNA
2377	15099		0.91	0.0E+00	BE814424.1	EST_HUMAN	MRO-BN0070-090600-029-d12 BN0070 Homo sapiens cDNA
2415	15136	27872	1.06	0.0E+00	AU119582.1	EST_HUMAN	AU119582 HEMBA1 Homo sapiens cDNA clone HEMBA1006155 5'
2416	15137		3.74	0.0E+00	A042035.1	EST_HUMAN	α60b02.x1 Scores_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1660883 3' similar to TR:008662
2417	15138	27873	0.98	0.0E+00	8923620	NT	O08662 230KDA PHOSPHATIDYLINOSITOL 4-KINASE. ;
2420	15141		4.44	0.0E+00	BE895605.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20693 (FLJ20693), mRNA
2424	15145	27878	1	0.0E+00	BE937632.1	EST_HUMAN	601432608F1 NIH_MGC.72 Homo sapiens cDNA clone IMAGE:3918168 5'
2433	15154		0.98	0.0E+00	AB006822.1	EST_HUMAN	MR1-TN0021-280800-001-F06 TN0021 Homo sapiens cDNA
2437	15157	27892	4.5	0.0E+00	6006002	NT	AB006822 Hela cDNA (T.Noma) Homo sapiens cDNA similar to adenylate kinase isozyme 2
2441	15160	27896	2.09	0.0E+00	D85606.1	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
2441	15160	27897	2.09	0.0E+00	D85606.1	NT	Homo sapiens gene for cholecystikinin type-A receptor, complete cds
2449	15168	27906	1.91	0.0E+00	AF106275.1	NT	Homo sapiens gene for cholecystikinin type-A receptor, complete cds
2454	15172	27911	1.22	0.0E+00	BF345274.1	EST_HUMAN	Homo sapiens immunoglobulin-like transcript 1c variant 4 (LT1c) gene, exon 6
2461	15179	27919	4.45	0.0E+00	5729777	NT	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4163670 5'
2466	15183	27922	1.24	0.0E+00	BE831003.1	EST_HUMAN	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2466	15183	27923	1.24	0.0E+00	BE831003.1	EST_HUMAN	CMM-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA
2470	15188	27927	0.93	0.0E+00	U13666.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2470	15188	27928	0.93	0.0E+00	U13666.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2471	15189	27929	2.98	0.0E+00	BF599144.1	EST_HUMAN	602184558T1 NIH_MGC.42 Homo sapiens cDNA clone IMAGE:4300383 3'

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2482	15200	27940	3.34	0.0E+00	AW468922.1	EST_HUMAN	ha04h04.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872780 3'
2484	15202	27941	2.99	0.0E+00	AW501010.1	EST_HUMAN	UI-HF-BP0p-als-c-07-0-UI.s1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072780 5'
2498	15215	27958	0.91	0.0E+00	5453965	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
2498	15215	27959	0.91	0.0E+00	5453965	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
2509	15226		1.66	0.0E+00	AW813853.1	EST_HUMAN	RC3-ST0197-300300-016-c04 ST0197 Homo sapiens cDNA
2514	15231	27971	5.22	0.0E+00	BE795542.1	EST_HUMAN	601592530F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946518 5'
2515	14668	27983	1.4	0.0E+00	7857038	NT	Homo sapiens death receptor 6 (DR6), mRNA
2516	15232	27972	1.48	0.0E+00	BF509482.1	EST_HUMAN	UI-H-BI4-aoz-b-08-0-UI.s1 NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086535 3'
2518	15234	27974	1.83	0.0E+00	Z32684.2	NT	Homo sapiens mRNA for membrane transport protein (XX gene)
2520	15236		3.28	0.0E+00	5453871	NT	Homo sapiens platelet-derived growth factor receptor-like (PDGFRL) mRNA
2522	15238	27977	1.3	0.0E+00	BE910378.1	EST_HUMAN	601503356F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3805148 5'
2523	15239	27978	1.96	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2524	15240	27979	2.01	0.0E+00	8923340	NT	Homo sapiens hypothetical protein FLJ20368 (FLJ20368), mRNA
2525	15241	27980	2.21	0.0E+00	U93239.1	NT	Human Sec62 (Sec62) mRNA, complete cds
2530	15246	27984	1.44	0.0E+00	BE886490.1	EST_HUMAN	601508211F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908866 5'
2534	15249	27989	5.16	0.0E+00	BE876511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2534	15249	27990	5.16	0.0E+00	BE876511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2536	15251	27993	1.19	0.0E+00	AF245505.1	NT	Homo sapiens adiccan mRNA, complete cds
2564	15269	28002	1.2	0.0E+00	BE536921.1	EST_HUMAN	601064738F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451161 5'
2561	15275	28012	2.97	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2561	15275	28013	2.97	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2562	15276	28014	1.8	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987865 5'
2562	15276	28015	1.8	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987865 5'
2563	15277	28016	1.07	0.0E+00	BF223041.1	EST_HUMAN	7q27m12.x1 NCL CGAP_GC8 Homo sapiens cDNA clone IMAGE:3' similar to TR:O00246 O00246
2566	15280	28018	7.94	0.0E+00	AF245505.1	NT	Homo sapiens adiccan mRNA, complete cds
2589	15303	28039	2.22	0.0E+00	BE286613.1	EST_HUMAN	601173631F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529159 5'
2606	15331	28060	2.13	0.0E+00	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2608	15331	28061	2.13	0.0E+00	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2607	15319		2.47	0.0E+00	BF513835.1	EST_HUMAN	UI-H-BW1-amp-f-12-0-UI.s1 NCL CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070631 3'
2611	15323	28065	1.36	0.0E+00	BF672818.1	EST_HUMAN	60216263F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293612 5'
2615	15326	28069	1.83	0.0E+00	BF204131.1	EST_HUMAN	601686073F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111411 5'
2615	15326	28070	1.83	0.0E+00	BF204131.1	EST_HUMAN	601686073F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111411 5'

Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2618	15329	28072	2.08	0.0E+00	AI571737.1	EST_HUMAN	tn19b08.x1 NCI CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2168055 3' similar to gbL20977 CALCIUM-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN ISOFORM 2 (HUMAN); Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28KD (TAF2l) mRNA
2619	15330	28073	2.19	0.0E+00	5032150	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2621	15333	28077	4.95	0.0E+00	AB037859.1	NT	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2622	15334	28078	1.02	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2622	15334	28079	1.02	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2625	15337	28080	2.55	0.0E+00	BE293328.1	EST_HUMAN	601143722F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051389 5'
2632	15344		4.92	0.0E+00	BE792472.1	EST_HUMAN	601584930F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939222 5'
2641	15352	28096	1.51	0.0E+00	4504686	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
2651	15361		1.27	0.0E+00	U78027.1	NT	Homo sapiens Brubn's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L), and FTP3 (FTP3) genes, complete cds
2652	15362	28103	6.55	0.0E+00	AF173227.1	NT	Homo sapiens guanylate cyclase-activating protein 2 (GUCY1B) gene, exon 1
2658	15368	28106	1.22	0.0E+00	AU133385.1	EST_HUMAN	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001964 5'
2659	15369	28107	1.08	0.0E+00	M69225.1	NT	Human bullous pemphigoid antigen (BPAG1) mRNA, complete cds
2661	15371	28109	2.22	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2661	15371	28110	2.22	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2663	15373	28112	1.71	0.0E+00	AW887015.1	EST_HUMAN	RC1-OT0086-220300-011-d07 OT0086 Homo sapiens cDNA
2666	15376	28115	1.25	0.0E+00	BF000018.1	EST_HUMAN	7h15h05.x1 NCI CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316089 3'
2667	15377	28116	4.37	0.0E+00	BE383165.1	EST_HUMAN	601298714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'
2668	15378		2.57	0.0E+00	BE531263.1	EST_HUMAN	601276373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610267 5'
							EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2725	15432		4.21	0.0E+00	AA316723.1	EST_HUMAN	601589625F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943591 5'
2726	15433	28169	5.57	0.0E+00	BE794894.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 5
2732	15439	28177	3.83	0.0E+00	U36253.1	NT	Homo sapiens neuregulin 1 (NRG1), transcript variant SMDF, mRNA
2733	15440	28178	1.33	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
2734	15441	28179	1.78	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
2736	15443	28181	1.27	0.0E+00	AB051826.1	NT	Homo sapiens hG28K mRNA for GTP-binding protein like 1, complete cds
2742	15448	28187	7.77	0.0E+00	BE796376.1	EST_HUMAN	601591991F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945983 5'
2743	15604	28191	3.48	0.0E+00	BE563433.1	EST_HUMAN	601335485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688564 5'
2746	15451		1.16	0.0E+00	AV721647.1	EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 5'
2748	15453	28194	2.25	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2748	15453	28195	2.25	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2749	15454	28196	1.21	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2749	15454	28197	1.21	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2750	15455	28198	2.5	0.0E+00	AF290195.1	NT	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2751	15456		13.89	0.0E+00	AV651086.1	EST_HUMAN	AV651086 GLC Homo sapiens cDNA clone GLCCLD07 3'
2752	15457	28199	3.13	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-508 TN0141 Homo sapiens cDNA
2753	15457	28200	3.13	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-508 TN0141 Homo sapiens cDNA
2754	15461	28203	33.8	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2755	15461	28204	33.8	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2756	15465	28209	2.58	0.0E+00	BE747193.1	EST_HUMAN	607580903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928472 5'
2771	15476		1.15	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2772	15477	28219	3.36	0.0E+00	BF514110.1	EST_HUMAN	UIH-BW1-armw-e-07-0-JL1s1 NCL CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071340 3'
2778	15483		0.99	0.0E+00	4503098	NT	Homo sapiens chondrolectin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2784	15489	28227	2.1	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2784	15489	28228	2.1	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2785	15490	28229	4.67	0.0E+00	BF677894.1	EST_HUMAN	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
2791	15496	28237	1.75	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPR T), mRNA
2794	15499	28239	13.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2794	15499	28240	13.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2796	15501		7.61	0.0E+00	AI879183.1	EST_HUMAN	au55d04.Y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518663 5' similar to
2799	15504	28245	5.41	0.0E+00	BF530661.1	EST_HUMAN	SW:R13A_HUMAN P40428 60S RIBOSOMAL PROTEIN L13A ;
2800	15505	28246	5.55	0.0E+00	BE872788.1	EST_HUMAN	602071957F1 NCL CGAP_Bin67 Homo sapiens cDNA clone IMAGE:4214679 5'
2802	15507	28247	1.6	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2802	15507	28248	1.6	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2803	15508	28249	20.25	0.0E+00	BE300344.1	EST_HUMAN	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960808 5'
2803	15508	28250	20.25	0.0E+00	BE300344.1	EST_HUMAN	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960808 5'
2809	12995	25634	4.22	0.0E+00	S76830.1	NT	glycoprotein D=Duffy group antigen [human, blood, Genomic DNA, 3068 nt]
2812	15515		4.35	0.0E+00	AB033281.1	NT	Homo sapiens BTRCP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2818	13491	26144	8.39	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2818	13491	26145	8.39	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2822	13776	28436	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily 1 (diol/n-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2822	13776	28437	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily 1 (diol/n-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2840	15608	28258	3.52	0.0E+00	X85980.1	NT	H. sapiens serine hydroxymethyltransferase pseudogene

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2841	15609		1.34	0.0E+00	AF068824.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds
2843	15611		1.22	0.0E+00	AB040960.1	NT	Homo sapiens mRNA for KIAA1627 protein, partial cds
2849	15617	28263	2.61	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2852	15620	28266	2.63	0.0E+00	M91803.1	NT	Human sodium channel mRNA
2854	15622	28267	1.94	0.0E+00	M80902.1	NT	Human AHNK nucleoprotein mRNA, 5' end
2857	15625	28269	1.29	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA
2857	15625	28270	1.29	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA
2859	15627		1.18	0.0E+00	X73428.1	NT	H. sapiens l33 gene for HLH type transcription factor
2860	15628		2.59	0.0E+00	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
2861	15629	28272	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28273	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28274	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2866	15633	28277	18.48	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2868	15633	28278	18.48	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2869	15638	28281	1.69	0.0E+00	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2870	15637		7.2	0.0E+00	Y10658.1	NT	H. sapiens mRNA for nuclear DNA helicase II
2871	15638		1.42	0.0E+00	AF152303.1	NT	Homo sapiens protocadherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds
2872	15639	28282	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2872	15639	28283	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2882	15649	28292	2.35	0.0E+00	4507280	NT	Homo sapiens serine/threonine kinase 9 (STK9) mRNA
2885	15652	28296	1.06	0.0E+00	AL047599.1	EST_HUMAN	DKFZp586G0621_j1 886 (synonym: huler1) Homo sapiens cDNA clone DKFZp586G0621
2886	15653	28297	0.97	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product, Helicase (KIAA0054), mRNA
2886	15653	28298	0.97	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product, Helicase (KIAA0054), mRNA
2887	15654		2.96	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2890	15657	28300	5.46	0.0E+00	BE081896.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2890	15657	28301	5.46	0.0E+00	BE081896.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2897	15664	28312	2.09	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
2897	15664	28313	2.09	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
2905	15671		4.18	0.0E+00	Y19210.1	NT	Homo sapiens hHb5 gene for hair keratin, exons 1 to 9
2907	15673	28321	1.33	0.0E+00	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
2908	15674	28322	20.94	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2909	15675	28323	1.91	0.0E+00	AI661002.1	EST_HUMAN	U18407.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247 O16247 F44E7.2 PROTEIN. ;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2909	15675	28324	1.91	0.0E+00	AI561002.1	EST_HUMAN	IN18407.X1 NCL CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O18247
2911	15677	28326	1.63	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
2912	15678	28327	2.01	0.0E+00	AF152338.1	NT	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2928	15694	28339	1.92	0.0E+00	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
2928	15694	28340	1.92	0.0E+00	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
2929	15695	28341	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2929	15695	28342	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2932	15698	28345	3.58	0.0E+00	7661903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2932	15698	28346	3.58	0.0E+00	7661903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2933	15699	28347	3.21	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24)) mRNA
2933	15699	28348	3.21	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24)) mRNA
2938	15703	28352	1.16	0.0E+00	BF110702.1	EST_HUMAN	7n40d03.X1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1
2938	15703	28353	1.16	0.0E+00	BF110702.1	EST_HUMAN	Q9VLN1 CG17293 PROTEIN, ;
2946	15712	28364	2.15	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2946	15712	28365	2.15	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2953	15719	28370	1.69	0.0E+00	4758827	NT	Homo sapiens neurxin III (NRXN3) mRNA
2954	15720		0.99	0.0E+00	X88494.1	NT	H. sapiens mRNA for M phase phosphoprotein 10
2957	15723	28373	2.38	0.0E+00	AB033034.1	NT	Homo sapiens mRNA for KIAA1208 protein, partial cds
2958	15724	28374	5.56	0.0E+00	X15309.1	NT	H. sapiens NF-H gene, exon 4
2958	15724	28375	5.56	0.0E+00	X15309.1	NT	H. sapiens NF-H gene, exon 4
2959	15725	28376	7.64	0.0E+00	AF106275.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2973	15739		1.13	0.0E+00	AI149880.1	EST_HUMAN	qf43f09.X1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
2980	15746	28394	1.12	0.0E+00	4506118	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
2981	15747	28395	2.85	0.0E+00	AB004884.1	NT	Homo sapiens mRNA for PKU-alpha, partial cds
2991	15757	28404	1.52	0.0E+00	7662273	NT	Homo sapiens KIAA0737 gene product (KIAA0737), mRNA
2993	15759	28406	3.75	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
2993	15759	28407	3.75	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
2997	15763	28412	1.1	0.0E+00	AB037852.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
3025	15791	28439	1.17	0.0E+00	M74099.1	NT	Human displacement protein (CCAA1) mRNA

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3033	15799	28445	0.71	0.0E+00	4505882	NT	Homo sapiens semenogelin 1 (SEMG1) mRNA
3038	15805		4.82	0.0E+00	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
3042	15808	28454	3.74	0.0E+00	5579489	NT	Homo sapiens heat shock 70kD protein 1 (HSPATA), mRNA
3042	15808	28455	3.74	0.0E+00	5579489	NT	Homo sapiens heat shock 70kD protein 1 (HSPATA), mRNA
3044	15810		5.88	0.0E+00	AL359403.1	NT	isoform 2 of a novel human mRNA from chromosome 22
3049	15815	28460	1.6	0.0E+00	AF017433.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
3052	15818						Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel $\alpha$
3068	15832	28475	1.98	0.0E+00	AF198779.1	NT	complete cds; and L-type calcium channel $\alpha$
3074	15840	28483	1.19	0.0E+00	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
3080	15845		2.8	0.0E+00	X03529.1	NT	Human germline gene 16.1 for Ig lambda L-chain C region (IgL-C16.1)
3084	15848	28490	1.54	0.0E+00	AF196355.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3104	15869	28509	1.72	0.0E+00	AF084599.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3105	15870	28510	3.2	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3110	15875	28514	7.83	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
3111	15876	28515	3.42	0.0E+00	7682139	NT	Homo sapiens KIAA0469 gene product (KIAA0469), mRNA
3138	15902	28547	1.21	0.0E+00	AF042076.1	NT	Homo sapiens olfactory receptor-like protein (OLFRL 42B) gene, OLFRL 42B-9110 allele, partial cds
3148	15911	28556	3.74	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3151	15914	28559	26.91	0.0E+00	L20941.1	NT	Human ferritin heavy chain mRNA, complete cds
3151	15914	28559	1.32	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3151	15914	28560	1.32	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3158	15921	28567			T94870.1	EST_HUMAN	ye32f03.s1 Stragene lung (#637210) Homo sapiens cDNA clone IMAGE:19453 3' similar to SP-S29539
3172	15935	28584	8.63	0.0E+00	T94870.1	EST_HUMAN	S29539 BASIC PROTEIN, 23k -
3178	15941	28591	0.98	0.0E+00	BF243336.1	EST_HUMAN	601878507F1 NIH_MGC_35 Homo sapiens cDNA clone IMAGE:4107433 5'
3178	15941	28592	4.39	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3187	15950	28601	4.39	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3187	15950	28602	1.31	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
3195	15958	28610	1.31	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
3211	15974	28626	8.46	0.0E+00	4504658	NT	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA
3214	15977	28628	3.25	0.0E+00	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
3220	15983	28638	1.98	0.0E+00	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
			0.85	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA



Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3220	15983	28637	0.85	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3222	15985	28638	3.07	0.0E+00	AA774763.1	EST_HUMAN	aa87b11.s1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971133 3'
3230	15993	28646	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3230	15993	28647	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3242	16004	28653	1.36	0.0E+00	4557590	NT	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA
3248	16010	28661	1	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3255	16017		5.8	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
3256	16018	28668					Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2W), RD, complement factor B (Bf), and complement component C2 (C2) genes >
3258	16020	28670	1.26	0.0E+00	AF019413.1	NT	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds
3261	16023	28672	3.96	0.0E+00	AF055084.1	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3261	16023	28673	1.11	0.0E+00	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3261	16023	28673	1.11	0.0E+00	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3269	17875	28680	2.09	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3269	17875	28681	2.09	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3285	16048	28695	2.25	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein b270 mRNA, partial cds
3286	16047	28696	1.17	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
3297	16059	28708	1.22	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3300	16062	28710	1.09	0.0E+00	AA94842.1	EST_HUMAN	cu58e08.s1 NCL_CGAP_B2 Homo sapiens cDNA clone IMAGE:1632038 3'
3309	16069	28718	1.18	0.0E+00	4885312	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
3318	16078	28728	1.99	0.0E+00	AI589294.1	EST_HUMAN	t58f08.x2 NCL_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2222535 3' similar to SW_RL11_RAT
3326	16086	28736	2.33	0.0E+00	AF128893.1	NT	P25121 60S RIBOSOMAL PROTEIN L11, contains Alu repetitive element;
3326	16086	28737	2.33	0.0E+00	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3327	16087	28738	1.22	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3327	16087	28739	1.22	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3329	16089	28741	1.27	0.0E+00	4502582	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3329	16089	28742	1.27	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3333	16093	28745	9.77	0.0E+00	AF111163.1	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3335	16095	28747	1.29	0.0E+00	AB040940.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
3342	16101	28753	0.84	0.0E+00	BE779039.1	EST_HUMAN	Homo sapiens mRNA for KIAA1507 protein, partial cds
3352	16112	28767	0.72	0.0E+00	AI632569.1	EST_HUMAN	601464995F1 NIH_MGC_608 Homo sapiens cDNA clone IMAGE:3868246 5'
3391	16150	28804	4.44	0.0E+00	AU123664.1	EST_HUMAN	601464995F1 NIH_MGC_608 Homo sapiens cDNA clone IMAGE:3868246 5'
							ZINC FINGER PROTEIN. ;
							AU123664 NT2RM2 Homo sapiens cDNA clone NT2RM2000735 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3398	16156	28807	0.95	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3398	16156	28808	0.95	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3401	16159	28810	1.36	0.0E+00	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC61594), mRNA
3402	16160	28811	1.42	0.0E+00	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-a isoform (CACNA1I) mRNA, complete cds
3408	16164	28824	0.99	0.0E+00	AW867015.1	EST_HUMAN	MR1-SN0033-100400-001-c08 SN0033 Homo sapiens cDNA
3418	16175	28824	1.68	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3418	16175	28828	1.68	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3418	16176	28826	1.34	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
3421	16178	28827	5.37	0.0E+00	5803067	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA
3430	15441	28179	1.75	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
3435	16191	28840	2.4	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3438	16194	28844	5.47	0.0E+00	K02380.1	NT	Bacteriophage P1 replication region including repA, parA, and parB genes and IncA, IncB, and IncC
3440	16196	28846	1.5	0.0E+00	7427622	NT	Incompatibility determinants
3448	16204	28853	3.54	0.0E+00	AB95159.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRY), mRNA
3448	16204	28854	3.54	0.0E+00	AB95159.1	EST_HUMAN	wp14d10.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR:O73633.4 O73634
3452	16208	28859	2.48	0.0E+00	AJ278120.1	NT	NEURAL CELL ADHESION MOLECULE ;
3459	16215	28868	1.82	0.0E+00	6562332	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
3459	16215	28869	1.82	0.0E+00	6562332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3464	16220	28874	1.31	0.0E+00	M14123.1	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3470	16226	28880	5.4	0.0E+00	U43293.1	NT	Human endogenous retrovirus HERV-K10
3475	16231	28884	1.18	0.0E+00	9558718	NT	Human MDS1A (AML1/MDS1 fusion) mRNA, partial cds
3475	16231	28885	1.18	0.0E+00	9558718	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3478	16235	28890	1.84	0.0E+00	AF045452.1	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3479	16235	28891	1.84	0.0E+00	AF045452.1	NT	Homo sapiens cell-line K51 transcriptional regulatory protein p54 mRNA, complete cds
3484	16241	28898	1.12	0.0E+00	AF231922.1	NT	Homo sapiens cell-line K51 transcriptional regulatory protein p54 mRNA, complete cds
3486	16252	28905	2.21	0.0E+00	BE304791.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
3496	16252	28906	2.21	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3051373 5'
3499	16255	28909	0.92	0.0E+00	4828795	NT	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
							Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNE2) mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3504	16260	28914	0.89	0.0E+00	A1384007.1	EST_HUMAN	le35g12.x1 Soares_NhMPu_S1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR:O00498
3507	16263	28917	1.11	0.0E+00	M10976.1	NT	O00498 MYASTHENIA GRAVIS AUTOANTIGEN GRAVIN ;
3529	16285	28940	1.29	0.0E+00	AV701899.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
3530	16286	28941	0.85	0.0E+00	AV701899.1	EST_HUMAN	AV701899 ADB Homo sapiens cDNA clone ADBDAH06 5'
3531	16287		1.74	0.0E+00	AF078988.1	NT	Homo sapiens semotogelin II (SEM2) mRNA
3539	16295	28945	1.49	0.0E+00	AL133204.1	NT	Homo sapiens homologous yeast-44.2 protein mRNA, complete cds
3542	16297	28948	1.21	0.0E+00	AB040909.1	NT	Novel human gene mapping to chromosome X
3561	16316	28963	1.37	0.0E+00	6997248	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3561	16316	28964	1.37	0.0E+00	6997248	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3562	16317		0.89	0.0E+00	AI081907.1	EST_HUMAN	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3564	16319	28967	1.04	0.0E+00	6325463	NT	ox77c11.x1 Soares_NhMPu_S1 Homo sapiens cDNA clone IMAGE:1662356 3' similar to WP:T19B4.4 CE13742 ;
3569	16324		4.17	0.0E+00	AW852217.1	EST_HUMAN	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3570	16331		0.78	0.0E+00	AF118846.1	NT	QV0-C10225-230300-169-e01 CT0225 Homo sapiens cDNA
3577	16332	28976	6.46	0.0E+00	BF676393.1	EST_HUMAN	Homo sapiens gamma-glutamylcysteine synthetase (GLCLC) gene, partial cds
3589	16343	28988	0.9	0.0E+00	AW937977.1	EST_HUMAN	602084583F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248596 5'
3603	16356	28986	0.74	0.0E+00	BF672054.1	EST_HUMAN	QV0-DT0047-170200-123-g01 DT0047 Homo sapiens cDNA
3603	16356	28987	0.74	0.0E+00	BF672054.1	EST_HUMAN	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293645 5'
3604	16357		0.95	0.0E+00	4826967	NT	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293645 5'
3606	16359	28989	1.08	0.0E+00	AW664693.1	EST_HUMAN	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3606	16359	29000	1.08	0.0E+00	AW664693.1	EST_HUMAN	hi84g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3609	16362	29004	1.42	0.0E+00	4826763	NT	hi84g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3611	16364	29007	0.93	0.0E+00	7662319	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 1 (HS3ST1) mRNA
3621	16374	29015	0.82	0.0E+00	4567752	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
3621	16374	29016	0.82	0.0E+00	4567752	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3638	16391	29030	2.67	0.0E+00	D87327.1	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3642	16395		33.2	0.0E+00	7669491	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
3658	16411	29049	2.6	0.0E+00	AB026542.1	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
3660	16413	29051	3.38	0.0E+00	AF124250.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
3660	16413	29052	3.38	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3668	16421	29061	1.85	0.0E+00	AL163204.2	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3668	16421	29062	1.85	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3671	16424	29065	1.62	0.0E+00	AW851714.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
							MR2-CT0222-281099-005-e05 CT0222 Homo sapiens cDNA

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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3673	16426	29067	1.53	0.0E+00	5729928	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3675	16428	29069	1.81	0.0E+00	AB018339.1	NT	Homo sapiens mRNA for KIAA0796 protein, partial cds
3677	16430	29071	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3677	16430	29072	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3678	16432	29074	22.21	0.0E+00	7662237	NT	Homo sapiens KIAA0670 protein/acinus (KIAA0670), mRNA
3678	16432	29075	22.21	0.0E+00	7662237	NT	Homo sapiens KIAA0670 protein/acinus (KIAA0670), mRNA
3682	16445	29084	4.35	0.0E+00	AW298134.1	EST_HUMAN	UI-H-BW0-ajs-a-12-0-UI.s1 NCL CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3692	16445	29085	4.35	0.0E+00	AW298134.1	EST_HUMAN	UI-H-BW0-ajs-a-12-0-UI.s1 NCL CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3714	16467	29105	1.08	0.0E+00	AA463659.1	EST_HUMAN	SW:KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIB4, [1];
3718	16471	29109	1.14	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3721	16474	29111	3.31	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3730	16482	29120	0.82	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3742	16495	29130	4.9	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3745	16498	29133	4.29	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2), mRNA
3751	16503	29138	1.08	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3751	16503	29139	1.08	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3800	16552	29185	0.71	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
3802	16554	29185	2.88	0.0E+00	AF179733.1	NT	Pan troglodytes olfactory receptor (PTR208) gene, partial cds
3804	16556	29187	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3804	16556	29188	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3808	16560	29193	1.24	0.0E+00	4759011	NT	Homo sapiens RAB9, member RAS oncogene family (RAB9) mRNA
3809	16561	29194	1.01	0.0E+00	10181139	NT	Mus musculus junctional protein 1 (Jp1-pending), mRNA
3812	16584	29197	1.01	0.0E+00	AB377699.1	EST_HUMAN	ta62f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2091307 3'
3813	16585	29198	1.97	0.0E+00	AF152496.1	NT	Homo sapiens protocadherin beta 3 (PCDH-beta3) mRNA, complete cds
3814	16586	29198	1.14	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DPL) (DSP) mRNA
3818	16570	29202	10.39	0.0E+00	S78685.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ8/BIR1) gene, complete cds
3819	16571	29203	2.22	0.0E+00	77107148	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA
3820	16572	29204	6.03	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3824	16576	29207	1.23	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3824	16578	29208	1.23	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3829	16580	29213	0.97	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3829	16580	29214	0.87	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds

Table 4

## Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3831	16582	29216	1.12	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3835	16586	29222	6.16	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5), mRNA
3835	16586	29223	6.16	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5), mRNA
3837	16588	29226	4.04	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134 mRNA, complete cds
3838	16589	29227	0.69	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3841	16592	29229	2.96	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3844	16595	29232	1.05	0.0E+00	AF012615.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11
3845	16596	29233	1.43	0.0E+00	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
3847	16598	29236	0.74	0.0E+00	AF099117.1	NT	Homo sapiens amphiphysin gene, partial cds
3856	16606	29244	2.16	0.0E+00	A1864727.1	EST_HUMAN	wk0101.x1 NCJ_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411085 3' similar to TR:O43340
3859	16609	29248	4.24	0.0E+00	4506742	NT	O43340 R28830_2; contains element PTR7 repetitive element;
3862	16612	29251	1.35	0.0E+00	AL040338.1	EST_HUMAN	Homo sapiens ribosomal protein S8 (RPS8), mRNA
3867	16617	29256	1.28	0.0E+00	6008887	NT	DKFZp434N0413_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0413 5'
3867	16617	29257	1.28	0.0E+00	6008887	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3869	16619	29259	3.22	0.0E+00	4504138	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3871	16621	29263	1.82	0.0E+00	4505078	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
3875	16625	29263	1.18	0.0E+00	AF149412.1	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1) mRNA
3884	16634	29273	1.2	0.0E+00	4506758	NT	Homo sapiens HBPI17 heparin-binding and FGF-binding protein gene, complete cds
3888	16638	29277	1.47	0.0E+00	4586642	NT	Homo sapiens dyadine receptor 3 (RYR3) mRNA
3896	16646	29286	1.18	0.0E+00	BF355295.1	EST_HUMAN	Homo sapiens zinc finger protein (KIAA0412) mRNA
3898	16648	29288	1.05	0.0E+00	AW888221.1	EST_HUMAN	RC3-H10860-170800-011-a12 H10860 Homo sapiens cDNA
3898	16648	29288	1.05	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
3904	16654	29295	1.82	0.0E+00	AF129533.1	NT	Matrix remodeling associated gene 5
3907	16657	29298	1	0.0E+00	AW451306.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
3912	16662	29303	2.81	0.0E+00	BE378602.1	EST_HUMAN	Homo sapiens F-box protein Fbx35 (FBL35) mRNA, partial cds
3920	16670	29311	0.92	0.0E+00	AW560740.1	EST_HUMAN	UI-H-B13-ah-g-07-q-UJ.s1 NCJ CGAP Sub5 Homo sapiens cDNA clone IMAGE:2736949 3'
3922	16672	29312	2.49	0.0E+00	5360215	NT	601236966F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608800 5'
3923	16673	29313	0.98	0.0E+00	BE264998.1	EST_HUMAN	PM3-L10031-100100-003-109 L10031 Homo sapiens cDNA
3923	16673	29314	0.98	0.0E+00	BE264998.1	EST_HUMAN	Homo sapiens iduronate 2-sulfatase (Hunter syndrome) (IDS), transcript variant 1, mRNA
3952	16702	29339	1.42	0.0E+00	U10991.1	NT	601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
							601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
							Human G2 protein mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3952	16702	29340	1.42	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
3952	16702	29341	1.42	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
3957	16706	29344	4.69	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3957	16706	29345	4.69	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3968	16715		4.39	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DPw4-beta-2 pseudogene, exon 2
3968	16717		5.74	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
3975	16724	29359	1.35	0.0E+00	AL118494.1	NT	Novel human gene mapping to chromosome 20
3978	16727	29361	3.22	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
3987	16735	29369	1.71	0.0E+00	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C088
3989	16747		27.98	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4003	16750		1.15	0.0E+00	AI657076.1	EST_HUMAN	tt56g08.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2244734 3' similar to TR:O60309 O60309 KIAA0563 PROTEIN.
4005	16751	29382	2.97	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4006	16752	29383	2.65	0.0E+00	U09386.1	NT	Human zinc finger protein ZNF133
4013	16759	29387	0.95	0.0E+00	AW339490.1	EST_HUMAN	xz91et10.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871594 3'
4024	16769	29401	6.33	0.0E+00	AB015610.1	NT	Chlorococcus aethiops mRNA for ribosomal protein S4X, complete cds
4033	16778		3.72	0.0E+00	AJ238617.1	NT	Homo sapiens mRNA for UGA suppressor RNA-associated antigenic protein (IRNA48 gene)
4045	16780	29418	1.32	0.0E+00	AB002314.2	NT	Homo sapiens mRNA for KIAA0316 protein, partial cds
4046	16781	29419	1.04	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4047	16782	29420	1.18	0.0E+00	AF036943.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1L) mRNA, complete cds
4048	16783	29421	2.65	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
4048	16783	29422	2.65	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
4054	16789	29429	5.29	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4054	16789	29430	6.29	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4069	16813	29442	4.7	0.0E+00	4885306	NT	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4070	16814	29443	5.98	0.0E+00	AB006525.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4073	16817	29444	1.11	0.0E+00	4758807	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
4074	16818	29445	5.87	0.0E+00	11418297	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4078	16819	29446	1.94	0.0E+00	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4082	16826	29453	2.71	0.0E+00	AF165527.1	NT	Homo sapiens DGCR8 (DGCR8) mRNA, complete cds
4091	13967	26525	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase X-linked (PRKX) mRNA
4091	13967	26526	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase X-linked (PRKX) mRNA
4097	18840	29466	1.09	0.0E+00	5901905	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
4099	18842	29469	1.08	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA

Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descripior
4099	16942	29470	1.08	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
4107	16950	29478	0.89	0.0E+00	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
4112	16955	29482	4.93	0.0E+00	A1982597.1	EST_HUMAN	wu04d04.x1 NCL CGAP GC8 Homo sapiens cDNA clone IMAGE:2515975 3'
4112	16955	29483	4.93	0.0E+00	A1982597.1	EST_HUMAN	wu04d04.x1 NCL CGAP GC8 Homo sapiens cDNA clone IMAGE:2515975 3'
4115	16957	29485	0.82	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA
4115	16957	29486	0.82	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA
4120	16962		2.34	0.0E+00	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:2967690 5'
4128	16968	29495	0.99	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4128	16968	29496	0.99	0.0E+00	AB032951.1	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4128	16970	29498	2.24	0.0E+00	5729725	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4135	16977		5.52	0.0E+00	AW675599.1	EST_HUMAN	ba51f04.x1 NIH_MGC 10 Homo sapiens cDNA clone IMAGE:2900095 3' similar to SW:TH12_BOVIN
4140	16982	29511	1.14	0.0E+00	AW408786.1	EST_HUMAN	Q95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR ;
4142	16984	29514	1.26	0.0E+00	8922466	NT	U1-HF-BM0-ack-c-02-0-UI.1 NIH_MGC 38 Homo sapiens cDNA clone IMAGE:3063147 5'
4142	16984	29515	1.26	0.0E+00	8922466	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4151	16993		2.8	0.0E+00	5174632	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4169	16909	29537	8.97	0.0E+00	AA401438.1	EST_HUMAN	Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREJ) mRNA
4169	16909	29538	8.97	0.0E+00	AA401438.1	EST_HUMAN	z168h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu
4205	16946		1.01	0.0E+00	AL163303.2	NT	repetitive element/contains element MER35 repetitive element ;
4240	16981	29606	4.08	0.0E+00	J02610.1	NT	repetitive element/contains element MER35 repetitive element ;
4255	16995	29625	0.83	0.0E+00	AW936699.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C103
4261	17002	29633	0.74	0.0E+00	4826827	NT	Human apolipoprotein B-100 mRNA, complete cds
4261	17002	29634	0.74	0.0E+00	4826827	NT	PM2-DT0023-080300-004-a08 DT0023 Homo sapiens cDNA
4263	17004	29636	4.7	0.0E+00	AF174590.1	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4270	17010		2.52	0.0E+00	AI189844.1	EST_HUMAN	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4273	17012		4.32	0.0E+00	U14920.1	NT	Homo sapiens F-box protein Fbl4 (FBL4) mRNA, partial cds
4285	17024	29650	1.35	0.0E+00	4505546	NT	q023f06.x1 Soares_placenta_86weeks_2NBHP868W Homo sapiens cDNA clone IMAGE:1724579 3' similar to contains MER20.b2 MER20 repetitive element ;
4291	17030	29657	0.76	0.0E+00	6563384	NT	Human CBFA3 (Cbfa3) gene, partial cds
4291	17030	29658	0.76	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4297	17036	29664	1.58	0.0E+00	U10991.1	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4297	17036	29665	1.58	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4307	17046	29671	8.31	0.0E+00	6912281	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4327	17066		1.16	0.0E+00	AF153047.2	NT	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds
4337	17076	29704	4.17	0.0E+00	L14561.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4341	17080	29709	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4341	17080	29710	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4342	17081	29711	0.94	0.0E+00	AW166933.1	EST_HUMAN	X688e10.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2633514 3' similar to TR:P97365 P97365
4348	17087	29717	1.42	0.0E+00	X60483.1	NT	ZINC FINGER PROTEIN 64 ;
4348	17087	29718	1.42	0.0E+00	X60483.1	NT	H. sapiens H4/d gene for H4 histone
4353	17091	29724	8.62	0.0E+00	7662091	NT	H. sapiens H4/d gene for H4 histone
4353	17091	29725	8.62	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4366	17104	29740	12.59	0.0E+00	4885126	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4367	17105	29741	1.14	0.0E+00	AJ271736.1	NT	Homo sapiens caudal type homeo box 1 (CDX4), mRNA
4400	17137	29786	0.98	0.0E+00	7019456	NT	Homo sapiens Xq pseudautosomal region, segment 2/2
4408	17145		6.5	0.0E+00	AF195953.1	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4414	17151	29778	1.25	0.0E+00	AJ249785.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4414	17151	29779	1.25	0.0E+00	AJ249785.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4436	17172		1.81	0.0E+00	AF200629.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4453	17189	29814	1.43	0.0E+00	T10233.1	EST_HUMAN	Homo sapiens HPS1 gene, intron 5
4453	17189	29815	1.43	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA Cat8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F205 5'
4456	17192		0.73	0.0E+00	M14123.1	NT	seq1329 b4HB3MA Cat8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F205 5'
4466	17202	29828	5.88	0.0E+00	AW084964.1	EST_HUMAN	Human endogenous retrovirus HERV-K10
4468	17881		1.67	0.0E+00	8051619	NT	xc68e08.x1 NCL_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2589446 3' similar to SW:AHNK_HUMAN
4470	17205	29831	0.93	0.0E+00	AI696998.1	EST_HUMAN	Q09668 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNAK ;
4473	17208		8.92	0.0E+00	AL163207.2	NT	Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
4475	17210	29835	3.17	0.0E+00	AW381570.1	EST_HUMAN	wc66b02.x1 NCL_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2322603 3' similar to contains MER22.b2
4481	17216	29842	1.99	0.0E+00	AJ278120.1	NT	PTR5 repetitive element ;
4481	17216	29843	1.99	0.0E+00	AJ278120.1	NT	Homo sapiens chromosome 21 segment HS21C007
4483	17218	29845	1.29	0.0E+00	4759487	NT	PM1-HT0305-101199-002-003 HT0305 Homo sapiens cDNA
4484	17219	29846	2.98	0.0E+00	AF108830.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
							Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
							Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
							Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds



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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4493	17229	29858	1.26	0.0E+00	S78584.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
4494	17230	29859	1.06	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4494	17230	29860	1.06	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4502	17882	29870	2.56	0.0E+00	6005973	NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4507	17242	29875	6.16	0.0E+00	AF208161.1	NT	Homo sapiens syncytin precursor, mRNA, complete cds
4512	17247	29882	4.31	0.0E+00	AF162337.1	NT	Homo sapiens protocadherin gamma C3 (PCDH-gamma-C3) mRNA, complete cds
4515	17250	29886	1.32	0.0E+00	5454175	NT	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4525	17260	29894	15.47	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4532	17267	29900	0.79	0.0E+00	4505016	NT	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
4536	17271	29903	1.61	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4540	17275	29908	2.03	0.0E+00	4502556	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4544	17279		2.38	0.0E+00	L35485.1	NT	Homo sapiens iduronate sulphate sulphotase (IDS) gene, complete cds
4546	17281	29910	12.72	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4546	17281	29911	12.72	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4563	17298	29925	0.96	0.0E+00	AF143314.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
4566	17301	29928	10.33	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4566	17301	29929	10.33	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4581	17316		1.88	0.0E+00	AA174072.1	EST_HUMAN	zp18g08.s1 Stratagene fetal retina 837202 Homo sapiens cDNA clone IMAGE:609854 3'
4583	17318		1.46	0.0E+00	7657410	NT	Homo sapiens odz (odd Oz/len-m, Drosophila) homolog 1 (ODZ1), mRNA
4585	17320		3.16	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4586	17321	29947	1.04	0.0E+00	H92741.1	EST_HUMAN	y92b01.s1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:231721 3'
4586	17321	29948	1.04	0.0E+00	H92741.1	EST_HUMAN	y92b01.s1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:231721 3'
4587	17322	29949	2.8	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4588	17323	29950	4.94	0.0E+00	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4589	17324		1.66	0.0E+00	AB037521.1	NT	Homo sapiens gene for naturalistic protein, partial cds
4596	17331	29958	1.53	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4596	17331	29959	1.53	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4597	17332	29960	1.52	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4597	17332	29961	1.52	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds

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## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4598	17333	29862	1.5	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4605	17340	29870	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4605	17340	29871	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4611	17346	29879	5.25	0.0E+00	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4617	17352	29887	1.08	0.0E+00	AA418246.1	EST_HUMAN	z96b07.s1 Scores_NHMPu_S1 Homo sapiens cDNA clone IMAGE:767805 3'
4624	17359		2.27	0.0E+00	AF086641.1	NT	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4628	17364	29898	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4629	17364	29899	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4630	17365	30000	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4630	17365	30001	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4631	17366	30002	2.67	0.0E+00	MT4099.1	NT	Human displacement protein (CCAA17) mRNA
4635	17370	30005	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4635	17370	30006	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4638	12950	26593	0.82	0.0E+00	T56945.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4638	12950	26594	0.82	0.0E+00	T56945.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4639	17373		1.31	0.0E+00	BE278730.1	EST_HUMAN	60115893F51 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505621 5'
4660	17394	30029	1.33	0.0E+00	U56651.1	NT	Mus musculus neurexophilin 1 (Nrxp1) gene, large exon and 3' end of the intron, and partial cds
4665	17399	30033	5.87	0.0E+00	IM80902.1	NT	Human AHNK nucleoprotein mRNA, 5' end
4668	17402	30036	2.23	0.0E+00	IM89197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4668	17402	30037	2.23	0.0E+00	IM89197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4671	17405	30040	1.9	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NCTR) gene, complete cds
4673	17407	30042	2.02	0.0E+00	7692181	NT	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA
4680	17414	30049	0.95	0.0E+00	U07563.1	NT	Human proto-oncogene tyrosine-protein kinase (ABL) gene, exon 1a and exons 2-10, complete cds
4681	17415	30050	0.97	0.0E+00	S71446.1	NT	SCN1A-brain type I sodium channel alpha-subunit (IIIS5 transmembrane region) [human, placenta, Genomic, 1556 nt]
4681	17415	30051	0.97	0.0E+00	S71446.1	NT	SCN1A-brain type I sodium channel alpha-subunit (IIIS5 transmembrane region) [human, placenta, Genomic, 1556 nt]
4692	17426		1.45	0.0E+00	X38467.1	NT	Human CYP2D7AP pseudogene for cytochrome P450 2D6
4701	17435	30065	1.05	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4701	17435	30066	1.05	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4709	17441	30073	1.4	0.0E+00	AF026801.1	NT	Homo sapiens alpha-3 type IX collagen (COL9A3) gene, promoter region, and exons 1-26
4712	17444	30076	0.84	0.0E+00	7019320	NT	Homo sapiens protein0008 (AD013), mRNA

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4712	17444	30077	0.84	0.0E+00	7016320	NT	Homo sapiens protein008 (AD013), mRNA
4735	17467	30103	1.88	0.0E+00	AW444637.1	EST_HUMAN	UIH-B13-qlw-c-04-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733294 3'
4740	17472		1.82	0.0E+00	AF083242.1	NT	Homo sapiens HSPC024-iso mRNA, complete cds
4750	17482		2.28	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
4780	17521		2.79	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4784	17525	30147	2.02	0.0E+00	X87205.1	NT	M.fascicularis mRNA for metalloprotease-like, disintegrin-like protein, IVa
4796	17527	30149	1.11	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSOR9) mRNA, complete cds
4797	17528	30150	1.96	0.0E+00	AF097416.1	NT	Mus musculus zinc finger transcription factor Kaiso mRNA, complete cds
4798	17529	30151	3.01	0.0E+00	4503766	NT	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
4800	17531	30153	13.57	0.0E+00	4885048	NT	Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
4801	17532	30154	1.04	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
4805	17536	30159	5.7	0.0E+00	8923080	NT	Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA
4809	17540	30163	0.97	0.0E+00	7681979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
4810	17541	30164	1.84	0.0E+00	M94081.1	NT	Human Tor-C-delta gene, exons 1-4; Tor-V-delta gene, exons 1-2; T-cell receptor alpha (Tor-alpha) gene, J1-
4810	17541	30165	1.84	0.0E+00	M94081.1	NT	J61 segments, and Tor-C-alpha gene, exons 1-4
4812	17543	30167	1.44	0.0E+00	X94628.1	NT	Human Tor-C-delta gene, exons 1-4; Tor-V-delta gene, exons 1-2; T-cell receptor alpha (Tor-alpha) gene, J1-
4812	17543	30168	1.44	0.0E+00	X94628.1	NT	J61 segments, and Tor-C-alpha gene, exons 1-4
4815	17546	30171	2.96	0.0E+00	AL163280.2	NT	H.sapiens MeCP-2 gene
4823	17554	30176	1.17	0.0E+00	5032150	NT	H.sapiens MeCP-2 gene
4830	17561	30183	1.09	0.0E+00	X92841.1	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF2)
4832	17563	30185	1.91	0.0E+00	4585642	NT	mRNA
4833	17564	30186	1.81	0.0E+00	AB014533.1	NT	H.sapiens MICA gene
4834	17565	30187	2.24	0.0E+00	6677848	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
4835	17566	30188	0.95	0.0E+00	5174560	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
4836	17567	30189	1.19	0.0E+00	4758199	NT	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA
4838	17569	30191	1.81	0.0E+00	7705546	NT	Homo sapiens desmoplakin (DPI, DP1) (DSP) mRNA
4842	17572	30196	12.62	0.0E+00	AF050066.1	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOX1), mRNA
4844	17574		3.47	0.0E+00	4505508	NT	Homo sapiens MHC class 1 region
4845	17575	30199	2.39	0.0E+00	AF091711.1	NT	Homo sapiens MHC class 1 region
4858	17587	30210	1.07	0.0E+00	D63562.1	NT	Homo sapiens splice variant AKAP350 mRNA, partial cds
							Homo sapiens COL4A6 gene for alpha(IV) collagen, exon 44 and partial cds

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4860	17589	30212	1.68	0.0E+00	4503684	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FDPs) mRNA
4865	17224	29852	1.03	0.0E+00	4508952	NT	Homo sapiens sialyltransferase 8 (alpha-N-acetylneuraminase, alpha-2,8-sialyltransferase, GD3 synthase) (SIAT8) mRNA
4875	17602	30224	3.09	0.0E+00	AB006925.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4875	17602	30225	3.09	0.0E+00	AB006925.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4885	17612	30232	0.95	0.0E+00	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4899	17626	30243	1.45	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4908	17633	30248	1.02	0.0E+00	AW462728.1	EST_HUMAN	U1-H-B13-ak1-f02-0-J1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3088691 3'
4909	17637	30251	1.61	0.0E+00	8922926	NT	Homo sapiens hypothetical protein FLJ11190 (FLJ11190), mRNA
4912	17640	30255	1.09	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, flensin (BFSP1) mRNA
4915	17643		4.69	0.0E+00	U14967.1	NT	Human ribosomal protein L21 mRNA, complete cds
4924	17652		2.95	0.0E+00	BE408863.1	EST_HUMAN	601303729F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3638118 5'
4928	17658	30268	3.18	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
4933	17661	30271	1.15	0.0E+00	7662407	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
4938	17666	30274	1.01	0.0E+00	AB028968.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
4947	17674	30283	2.34	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4947	17674	30284	2.34	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4958	17683	30291	0.81	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
4958	17683	30292	0.81	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
4958	17683	30293	0.81	0.0E+00	AA601246.1	EST_HUMAN	E239140 SPALT PROTEIN ;
4961	17686	30295	1.11	0.0E+00	AF161463.1	NT	no14g09.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
4961	17686	30296	1.11	0.0E+00	AF161463.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4973	13019	25661	0.71	0.0E+00	AF195658.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4976	17699		0.84	0.0E+00	AL050253.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
4985	17708	30312	1.63	0.0E+00	AF016705.1	NT	Homo sapiens similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMPs, Tollad, Sushi repeat proteins
4986	17709	30313	1.5	0.0E+00	Y19186.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 3
4986	17709	30314	1.5	0.0E+00	Y19186.1	NT	Mus musculus mRNA for aczonin, short spliced variant (acz gene)
4994	17717		1.28	0.0E+00	AL163209.2	NT	Mus musculus mRNA for aczonin, short spliced variant (acz gene)
							Homo sapiens chromosome 21 segment HS21C009

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4997	17720		26.03	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
5001	17724	30326	0.97	0.0E+00	AA084272.1	EST_HUMAN	zn03g10.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:546402 5'
5001	17724	30327	0.97	0.0E+00	AA084272.1	EST_HUMAN	zn03g10.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:546402 5'
5012	16924	29553	0.95	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5012	16924	29554	0.95	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5026	17747	30359	3	0.0E+00	X52988.1	NT	Bacillus amyloqueliciens sacB gene for levansucrase (EC 2.4.1.10)
5042	17761	30375	1.04	0.0E+00	AF240835.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5042	17761	30376	1.04	0.0E+00	AF240835.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5045	17764	30380	1.55	0.0E+00	7657074	NT	Homo sapiens ecotropic viral integration site 2A (EVI2A) mRNA
5045	17764	30381	1.55	0.0E+00	7657074	NT	Homo sapiens ecotropic viral integration site 2A (EVI2A) mRNA
5049	17768	30387	1.11	0.0E+00	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5050	17769	30388	14.05	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL) mRNA
5052	17771	30389	1.03	0.0E+00	4557362	NT	Homo sapiens PR domain containing 1, with ZNF domain (PRDM1) mRNA
5056	17775	30391	2.75	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5056	17775	30392	2.75	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5058	17777	30394	1.07	0.0E+00	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
5079	17798	30414	1.01	0.0E+00	8923822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5079	17798	30415	1.01	0.0E+00	8923822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5081	17800	30417	0.76	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5081	17800	30418	0.76	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5088	17807	30423	2.69	0.0E+00	7657008	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5097	17816	30433	2.05	0.0E+00	AB011131.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
5109	17827	30444	1.23	0.0E+00	D49802.1	NT	Mus musculus mRNA for leucine-rich repeat protein, partial cds
5110	17828	30445	1.14	0.0E+00	AF227534.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete cds, long splice variant
5111	17829	30446	1.88	0.0E+00	AF227534.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete cds, long splice variant
5112	17830	30447	0.99	0.0E+00	AF245702.1	NT	Homo sapiens toll-like receptor 7 (TLR7) mRNA, complete cds
5115	17833	30449	6.53	0.0E+00	4505096	NT	Homo sapiens microtubule-associated protein 2 (MAP2) mRNA
5116	17834	30450	1.5	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5116	17834	30451	1.5	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5117	17835	30452	1.6	0.0E+00	AW955819.1	EST_HUMAN	EST367889 MAGE resequences, MAGD Homo sapiens cDNA
5119	17837		1.31	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
5126	17844		1.12	0.0E+00	AJ010179.1	NT	Homo sapiens gabar1 receptor gene, exon 6

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5139	17857	30473	5.57	0.0E+00	AB027013.1	NT	Homo sapiens mRNA for Nucleosome Assembly Protein 1-like 2, complete cds
5150	17861	30477	1.19	0.0E+00	AB035356.1	NT	Homo sapiens mRNA for neurixin 1-alpha protein, complete cds
5151	17868	30481	1.18	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
5154	17871		1.08	0.0E+00	M91803.1	NT	Human sodium channel mRNA
5155	17872	30484	1.37	0.0E+00	5454013	NT	Homo sapiens ring finger protein 15 (RNF15), mRNA
5162	17893		3.44	0.0E+00	AF093093.1	NT	Homo sapiens acornase (ACO2) gene, nuclear gene encoding mitochondrial protein, exon 15
5172	17981	30495	2.52	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5172	17981	30496	2.52	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5192	18000	30623	1.29	0.0E+00	AI934954.1	EST_HUMAN	wp06g08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2464094 3'
5195	18003	30628	1.77	0.0E+00	9256579	NT	Homo sapiens protocadherin alpha 13 (PCDHA13), mRNA
5209	18017	30639	3.81	0.0E+00	BE931080.1	EST_HUMAN	RC3-GN0076-310800-013-b03 GN0076 Homo sapiens cDNA
5213	18021	30643	3	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5213	18021	30644	3	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5220	18027	30652	1.66	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5220	18027	30653	1.66	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5299	18104	30763	6.56	0.0E+00	BE975498.1	EST_HUMAN	7110c06.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3284250 3'
5300	18105	30764	1.75	0.0E+00	BE220753.1	EST_HUMAN	h99a02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166104 3' similar to SW:Y054_HUMAN
5301	18106	30765	1.93	0.0E+00	BE794412.1	EST_HUMAN	P42694 HYPOTHETICAL PROTEIN KIAA0054 ;
5301	18106	30766	1.93	0.0E+00	BE794412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
							601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5302	18107	30767	0.81	0.0E+00	AI189142.1	EST_HUMAN	qdb4a04.x1 Soares_placenta_8tc9weeks_2NbHP8a9W Homo sapiens cDNA clone IMAGE:1722702 3'
5306	18111	30770	6.17	0.0E+00	M29908.1	NT	similar to SW:T2D3_DROME_P49846 TRANSCRIPTION INITIATION FACTOR TFIIID 85 KD SUBUNIT ;
5319	25066	30780	4.68	0.0E+00	11421038	NT	Homo sapiens eosinophil peroxidase (EPP) gene, exon 7
5329	18132		7.18	0.0E+00	BF665962.1	EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4), mRNA
5330	18133	30791	0.73	0.0E+00	AU134406.1	EST_HUMAN	602118928F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276254 5'
5330	18133	30792	0.73	0.0E+00	AU134406.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5335	18138	30799	1	0.0E+00	BE538857.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5344	18147	30826	1.07	0.0E+00	BE292784.1	EST_HUMAN	601061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 5'
5348	18151	30831	1.69	0.0E+00	BF526328.1	EST_HUMAN	601105891F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988310 5'
5348	18151	30832	1.69	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5367	19491	32513	1.82	0.0E+00	4557364	NT	602071372F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5370	18171	30858	0.91	0.0E+00	AB007835.1	NT	Homo sapiens Bloom syndrome (BLM) mRNA
							Homo sapiens mRNA for KIAA0466 protein, partial cds

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Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5370	18171	30859	0.91	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
5374	18174	30863	4.85	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5374	18174	30864	4.85	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5387	18187	30878	1.08	0.0E+00	D26535.1	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
5387	18187	30879	1.08	0.0E+00	D26535.1	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
5401	18201	30908	1.88	0.0E+00	11420819	NT	Homo sapiens ciliary receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5407	18206	30912	0.81	0.0E+00	Z38133.1	NT	H. sapiens mRNA for myosin
5426	18225	30936	0.78	0.0E+00	D61564.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05
5426	18225	30937	0.78	0.0E+00	D61564.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05
5429	18228	30941	2.55	0.0E+00	BF529931.1	EST_HUMAN	602042322F1 NCJ CGAP Bn67 Homo sapiens cDNA clone IMAGE:4179988 5'
5429	18228	30942	2.55	0.0E+00	BF529931.1	EST_HUMAN	602042322F1 NCJ CGAP Bn67 Homo sapiens cDNA clone IMAGE:4179988 5'
5434	18233	30946	2.92	0.0E+00	BF313139.1	EST_HUMAN	601897658F1 NIH_MGC 19 Homo sapiens cDNA clone IMAGE:4126815 5'
5445	18244	31132	4.37	0.0E+00	11434392	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
5477	18276	31171	1.15	0.0E+00	BE260777.1	EST_HUMAN	601150252F1 NIH_MGC 19 Homo sapiens cDNA clone IMAGE:3502908 5'
5486	18285	31196	3.51	0.0E+00	AW987916.1	EST_HUMAN	MRO-SN0037-030400-001-007 SN0037 Homo sapiens cDNA
5500	18298	31196	2.33	0.0E+00	BE292889.1	EST_HUMAN	601105291F1 NIH_MGC 15 Homo sapiens cDNA clone IMAGE:2987903 5'
5500	18298	31197	2.33	0.0E+00	BE292889.1	EST_HUMAN	601105291F1 NIH_MGC 15 Homo sapiens cDNA clone IMAGE:2987903 5'
5521	18319	31219	1.51	0.0E+00	11420819	NT	Homo sapiens ciliary receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5521	18319	31220	1.51	0.0E+00	11420819	NT	Homo sapiens ciliary receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5528	18326	31228	4.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5528	18326	31229	4.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5535	18333	31239	2.95	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5535	18333	31240	2.95	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5566	18363	31271	0.61	0.0E+00	AI198515.1	EST_HUMAN	q194g10.x1 Soares_placenta_808weeks_2NbpHP80dW Homo sapiens cDNA clone IMAGE:1757730 3'
5570	18367	31277	6.98	0.0E+00	M85719.1	EST_HUMAN	similar to SW-CADC HUMAN P55289 BRAIN-CADHERIN PRECURSOR
5577	18374	31286	4.83	0.0E+00	AW405472.1	EST_HUMAN	EST02238 Fetal brain, Striatum (cat#33206) Homo sapiens cDNA clone HFB0CM48
5590	18386	31296	1.25	0.0E+00	Z26269.1	NT	UI-HF-BL0-adh-d-02-q-U1r1 NIH_MGC 37 Homo sapiens cDNA clone IMAGE:3061658 5'
5601	18399	31306	1.94	0.0E+00	AW361877.1	EST_HUMAN	H sapiens isoform 1 gene for L-type calcium channel, exon 14 and 15
5601	18399	31307	1.94	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5601	18399	31308	1.94	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5605	18401	31315	2.55	0.0E+00	U36261.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 13

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5636	18431	31344	1.03	0.0E+00	AB046961.1	NT	Homo sapiens mRNA for KIAA1641 protein, partial cds
5691	18485	31404	1.56	0.0E+00	AJ006346.1	NT	Homo sapiens KVLQT1 gene
5691	18485	31405	1.56	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQT1 gene
5699	18483	31418	1.19	0.0E+00	AJ207616.1	EST_HUMAN	HA2981 Human fetal liver cDNA library Homo sapiens cDNA
5717	18509	31430	5.23	0.0E+00	11416801	NT	Homo sapiens protocadherin beta 2 (PCDH2), mRNA
5722	18514	31433	1.21	0.0E+00	BE791173.1	EST_HUMAN	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938551 5'
5731	18523	31444	1.13	0.0E+00	9989943	NT	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938551 5'
5732	18524	31445	6.59	0.0E+00	BE660082.1	EST_HUMAN	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
5733	18525	31446	1.67	0.0E+00	10048478	NT	601345141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677843 5'
5734	18526	31447	4.05	0.0E+00	U86961.1	NT	Mus musculus azocin (Acz), mRNA
5734	18526	31448	4.05	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5734	18526	31448	4.05	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5752	18544	31466	2.28	0.0E+00	BF338635.1	EST_HUMAN	602036272F1 NCI_CGAP_Brr64 Homo sapiens cDNA clone IMAGE:4184321 5'
5756	18548	31468	1.03	0.0E+00	AF142621.1	NT	Homo sapiens calcium channel gamma 5 subunit (CACNG5) gene, exon 4 and complete cds
5757	18549	31470	3.06	0.0E+00	BE273983.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5768	18559	31486	0.88	0.0E+00	BE503096.1	EST_HUMAN	h283d11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214581 3' similar to TR:Q62084 Q62084
5773	18584	31493	1.87	0.0E+00	BF569905.1	EST_HUMAN	PHOSPHOLIPASE C NEIGHBORING ;
5778	18589	31497	1.21	0.0E+00	AA454642.1	EST_HUMAN	602185552F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
5811	18600	31528	2.38	0.0E+00	AF217289.1	NT	z09d06.s1 Soares_NHMPV_ST Homo sapiens cDNA clone IMAGE:811883 3'
5813	18602	31530	1.75	0.0E+00	BE928144.1	EST_HUMAN	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
5818	18607	31535	2.27	0.0E+00	BE558636.1	EST_HUMAN	RC5-E10027-210600-022-G10 ET0027 Homo sapiens cDNA
5831	18620	31552	0.55	0.0E+00	BE673986.1	EST_HUMAN	601545287F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930453 5'
5831	18620	31553	0.55	0.0E+00	BE673986.1	EST_HUMAN	7d72e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5836	18625	31559	1.14	0.0E+00	AW276780.1	EST_HUMAN	7d72e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5847	18634	31571	1.16	0.0E+00	BF031742.1	EST_HUMAN	601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
5847	18634	31572	1.16	0.0E+00	BF031742.1	EST_HUMAN	GUANYLATE KINASE ASSOCIATED PROTEIN ;
5859	18646	31587	0.58	0.0E+00	AW470846.1	EST_HUMAN	601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
5872	18659	31599	0.77	0.0E+00	BF156670.1	EST_HUMAN	h34d06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875595 3' similar to TR:Q9ZTN3
							Q9ZTN3 MYOSIN-RHO GAP PROTEIN, MYR 7 ;
							QV4-H10894-230900-399-a10 HT0894 Homo sapiens cDNA



Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5872	18659	31600	0.77	0.0E+00	BF15670.1	EST_HUMAN	QV4-HT0894-290900-399-a10 HT0894 Homo sapiens cDNA
5878	18664	31604	3.22	0.0E+00	W33069.1	EST_HUMAN	z08h08.r1 Soares_papillary_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
5878	18664	31605	3.22	0.0E+00	W33069.1	EST_HUMAN	z08h08.r1 Soares_papillary_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
5879	18665		2.51	0.0E+00	AF012618.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
5882	18668	31609	3.33	0.0E+00	BE280197.1	EST_HUMAN	601158515F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:33505323 5'
5890	18675	31620	2.6	0.0E+00	BE889610.1	EST_HUMAN	601512630F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3914238 5'
5905	18690	31639	0.6	0.0E+00	AW752848.1	EST_HUMAN	IL3-CT0220-111199-028-E04 CT0220 Homo sapiens cDNA
5908	18692	31641	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product synaptic vesicle protein 2B homolog (KIAA0735), mRNA
5908	18692	31642	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product synaptic vesicle protein 2B homolog (KIAA0735), mRNA
5909	18693	31643	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5909	18693	31644	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5909	18693	31645	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5923	25081	31661	10.66	0.0E+00	9789986	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA
5926	18710	31664	1.2	0.0E+00	AA193506.1	EST_HUMAN	z40h01.r1 Soares_NHMPu_ST Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5. ;
5926	18710	31665	1.2	0.0E+00	AA193506.1	EST_HUMAN	z40h01.r1 Soares_NHMPu_ST Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5. ;
5948	18730	31689	16.77	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
5948	18730	31690	16.77	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
5987	18768	31732	0.99	0.0E+00	BE258330.1	EST_HUMAN	601114823F1 NIH_MGC_26 Homo sapiens cDNA clone IMAGE:3356565 5'
5997	18778	31740	1.2	0.0E+00	BE156561.1	EST_HUMAN	QV0-HT0368-090200-099-e09 HT0368 Homo sapiens cDNA
6007	18788	31750	0.85	0.0E+00	M38107.1	NT	Human neurofibromatosis type 1 (NF-1) mRNA, 3' end of cds
6040	18820	31781	1.32	0.0E+00	BE379007.1	EST_HUMAN	601236276F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608490 5'
6046	18826	31787	1.39	0.0E+00	AU137772.1	EST_HUMAN	AUT137772 PLACE1 Homo sapiens cDNA clone PLACE1007201 5'
6066	18845	31809	3.78	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-9-6 gene, complete cds
6094	18872	31839	4.52	0.0E+00	AA204740.1	EST_HUMAN	z081d03.r1 Stragene hNT neuron (8937233) Homo sapiens cDNA clone IMAGE:648005 5' similar to TR:G854195 G854195 LEUKOCYTE SURFACE PROTEIN. ;
6095	18873	31840	3.97	0.0E+00	11545913	NT	Homo sapiens xylotransferase II (XT2), mRNA
6095	18873	31841	3.97	0.0E+00	11545913	NT	Homo sapiens xylotransferase II (XT2), mRNA
6129	18907	31875	1.14	0.0E+00	11426367	NT	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
6133	18911	31880	2.87	0.0E+00	BE257173.1	EST_HUMAN	601109532F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350622 5'
6147	18924		0.85	0.0E+00	AI695048.1	EST_HUMAN	h01f10.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2248639 3' similar to TR:Q14839 Q14839 MI-2 PROTEIN. ;

Table 4

## Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6151	18928	31897	1.53	0.0E+00	L35930.1	NT	Human anion exchanger (AE1) gene, exons 1-20
6159	18936	31903	1.22	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6159	18936	31904	1.22	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6170	18947	31919	0.57	0.0E+00	AI198025.1	EST_HUMAN	q150b11.x1 NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838 TFIIIC ALPHA SUBUNIT
6170	18947	31920	0.57	0.0E+00	AI198025.1	EST_HUMAN	q150b11.x1 NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838 TFIIIC ALPHA SUBUNIT
6172	18949	31921	0.85	0.0E+00	BF367123.1	EST_HUMAN	MR0-HT0923-220800-102-505 HT0923 Homo sapiens cDNA
6180	18957	31931	1.08	0.0E+00	11435630	NT	Homo sapiens peptide transporter 3 (LOC51296), mRNA
6189	18968	31939	0.85	0.0E+00	D55649.1	NT	Human mRNA for alpha mannosidase II isozyme, complete cds
6207	18982	31981	1.03	0.0E+00	AW178142.1	EST_HUMAN	IL3-HT0062-010999-014-A04 HT0062 Homo sapiens cDNA
6228	19002	31978	0.66	0.0E+00	BE674544.1	EST_HUMAN	7e02c12.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3281302 3' similar to SW:Y176_HUMAN
6232	19006	31983	1.33	0.0E+00	7662039	NT	Q14681 HYPOTHETICAL PROTEIN KIAA0176
6246	19020	32003	8.59	0.0E+00	AV650020.1	EST_HUMAN	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
6254	19028	32003	3.13	0.0E+00	AW575598.1	EST_HUMAN	AV650020 GLC Homo sapiens cDNA clone GLCCAD09 3'
6257	19031	32008	6.26	0.0E+00	H01255.1	EST_HUMAN	UI-HF-BLD-acc-8-12-Q-U1s1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058761 3'
6269	19042	32019	1.6	0.0E+00	X16377.1	NT	Y127503.1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:149933 5'
6271	19044	32021	0.65	0.0E+00	AA456376.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6272	19045	32022	1.3	0.0E+00	AI612841.1	EST_HUMAN	aa14607.r1 Soares NRHMPu_S1 Homo sapiens cDNA clone IMAGE:813252 5'
6278	19051	32028	4.71	0.0E+00	BE735989.1	EST_HUMAN	ts57d08.x1 NCL_CGAP_Ov45 Homo sapiens cDNA clone IMAGE:2282687 3' similar to SW:NTCS_HUMAN
6278	19051	32029	4.71	0.0E+00	BE735989.1	EST_HUMAN	P53796 SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2
6282	19055	32035	0.86	0.0E+00	AW748596.1	EST_HUMAN	601305388F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639616 5'
6282	19055	32036	0.86	0.0E+00	AW748596.1	EST_HUMAN	601305388F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639616 5'
6283	19056	32038	0.6	0.0E+00	U77629.1	NT	MR0-BT0264-221199-002-f11 BT0264 Homo sapiens cDNA
6285	19058	32038	15.59	0.0E+00	AU119245.1	EST_HUMAN	MR0-BT0264-221199-002-f11 BT0264 Homo sapiens cDNA
6285	19058	32039	15.59	0.0E+00	AU119245.1	EST_HUMAN	Homo sapiens Achaete-Scute homologue 2 (ASCL2) gene, complete cds
6289	19062	32044	0.8	0.0E+00	BE760453.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6290	19063	32045	1.12	0.0E+00	X92217.1	NT	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6304	19076	32062	1.52	0.0E+00	AI989483.1	EST_HUMAN	601468712F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3671899 5'
6317	19088	32072	6.91	0.0E+00	BE293153.1	EST_HUMAN	H.sapiens germline immunoglobulin heavy chain, variable region, (13-2)
6317	19088	32073	6.91	0.0E+00	BE293153.1	EST_HUMAN	ws25c07.x1 NCL_CGAP_G06 Homo sapiens cDNA clone IMAGE:2498220 3'
							601105344F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2987963 5'
							601105344F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2987963 5'

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6355	19125	32119	0.58	0.0E+00	BF057438.1	EST_HUMAN	7k43h05.x1 NC1_CGAP_OY18 Homo sapiens cDNA clone IMAGE:3478496 3' similar to TR:O14553 O14553
6388	19157	32157	1.89	0.0E+00	AW406348.1	EST_HUMAN	R31240.1;
6388	19157	32158	1.89	0.0E+00	AW406348.1	EST_HUMAN	UIHF-BL0-acc-h-02-0-UI.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6418	19186	32184	0.79	0.0E+00	AV719444.1	EST_HUMAN	UIHF-BL0-acc-h-02-0-UI.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6427	19195	32191	0.98	0.0E+00	BE886340.1	EST_HUMAN	AV719444 GLC Homo sapiens cDNA clone GLOEHC06 5'
6427	19195	32192	0.98	0.0E+00	BE886340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6430	19198	32195	2.24	0.0E+00	AF190890.1	NT	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6433	19201	32197	1.17	0.0E+00	11420658	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CACNA1G) mRNA, complete cds
6440	19208	32204	7.5	0.0E+00	AW163640.1	EST_HUMAN	Homo sapiens transformation/transcription domain-associated protein (TRRAP), mRNA
6440	19208	32205	7.5	0.0E+00	AW163640.1	EST_HUMAN	au66h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to
6444	19212	32208	0.97	0.0E+00	W37163.1	EST_HUMAN	TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206 ;
6444	19212	32209	0.97	0.0E+00	W37163.1	EST_HUMAN	au66h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to
6459	19226	32226	1.08	0.0E+00	BE794653.1	EST_HUMAN	TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206 ;
6466	19233	32233	5.81	0.0E+00	BE799873.1	EST_HUMAN	SW:ZNA45 HUMAN Q02386 ZINC FINGER PROTEIN 45 ;
6467	19234	32234	0.56	0.0E+00	BE767955.1	EST_HUMAN	zb20e06.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:3943504 5'
6467	19234	32235	0.56	0.0E+00	BE767955.1	EST_HUMAN	SW:ZNA45 HUMAN Q02386 ZINC FINGER PROTEIN 45 ;
6471	19238	32238	6.95	0.0E+00	BE889813.1	EST_HUMAN	601587561F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941847 5'
6471	19238	32239	6.95	0.0E+00	BE889813.1	EST_HUMAN	QV1-GN0065-140800-318-102 GN0065 Homo sapiens cDNA
6480	19247	32247	5.62	0.0E+00	L24493.1	NT	QV1-GN0065-140800-318-102 GN0065 Homo sapiens cDNA
6485	19252	32251	1.88	0.0E+00	AL163204.2	NT	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6491	19258	32259	4.06	0.0E+00	6005083	NT	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6494	19260	32261	4.76	0.0E+00	AI638412.1	EST_HUMAN	Human antigen CD27 gene, exons 1-2
6495	19261	32262	1.36	0.0E+00	L32832.1	NT	Homo sapiens chromosome 21 segment HS21C004
6507	19272	32273	4.12	0.0E+00	AA434584.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
6520	19286		0.99	0.0E+00	BF217200.1	EST_HUMAN	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
6523	19289	32293	1.82	0.0E+00	BE925875.1	EST_HUMAN	1631111.x1 NC1_CGAP_G08 Homo sapiens cDNA clone IMAGE:2242413 3' similar to SW:WNT3_MOUSE

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6554	19319	32325	1.11	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6554	19319	32326	1.11	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6571	19335	32348	1.6	0.0E+00	AU125928	EST_HUMAN	Homo sapiens cDNA clone NT2RM4002430 5'
6573	19337	32348	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 Homo sapiens cDNA
6573	19337	32349	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 Homo sapiens cDNA
6594	19357	32371	1.67	0.0E+00	BE142363.1	EST_HUMAN	GM0-HT0143-270998-062-408 HT0143 Homo sapiens cDNA
6614	19377	32391	1.44	0.0E+00	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6614	19377	32392	1.44	0.0E+00	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6638	19400	32415	8.38	0.0E+00	BE169131.1	EST_HUMAN	PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA
6640	19402	32417	1.93	0.0E+00	BF085887.1	EST_HUMAN	IL6-GN0032-180900-145-d07 GN0032 Homo sapiens cDNA
6678	19595	32633	3.49	0.0E+00	AA190755.1	EST_HUMAN	zp88a03.r1 Stratiogene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:627292 5'
6680	19607	32647	0.94	0.0E+00	U39573.1	NT	Human salivary peroxidase mRNA, complete cds
6693	19610	32649	0.91	0.0E+00	BE671987.1	EST_HUMAN	7a49b07.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:3222037 3' similar to TR:Q9Z285 Q9Z285 TEK1N.
6703	19618	32660	6.69	0.0E+00	A1940821.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6703	19618	32661	6.69	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6714	19629	32674	1.91	0.0E+00	11435628	NT	Homo sapiens CD8 antigen (CD8), mRNA
6726	19560	32592	0.99	0.0E+00	AL042443.1	EST_HUMAN	DKFZp434D2021_l1 434 (synonym: hlae3) Homo sapiens cDNA clone DKFZp434D2021 5'
6729	19563	32595	0.9	0.0E+00	A1168270.1	EST_HUMAN	oo10d01.x1 Sceres NSF_F8 gW_OT_PA_P_S1 Homo sapiens cDNA clone DKFZp434D2021 5'
6734	19568	32600	0.83	0.0E+00	BE734087.1	EST_HUMAN	TR:Q26623 Q26623 TEK1N C1.;
6752	17921	30556	1.68	0.0E+00	BE568381.1	EST_HUMAN	601339977F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842080 5'
6761	17930	30565	11.84	0.0E+00	BE867889.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3842087 5'
6761	17930	30566	11.84	0.0E+00	BE867889.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3842087 5'
6768	19510	32535	2.2	0.0E+00	BE550162.1	EST_HUMAN	7b49f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95.;
6766	19510	32536	2.2	0.0E+00	BE550162.1	EST_HUMAN	7b49f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95.;
6780	19534	32562	1.25	0.0E+00	BF088376.1	EST_HUMAN	CM1-HT0877-060900-397-g11 HT0877 Homo sapiens cDNA
6786	19540	32568	2.48	0.0E+00	AA195106.1	EST_HUMAN	zc34g03.r1 Sceres NiHMPu_S1 Homo sapiens cDNA clone IMAGE:665332 5'
6803	19464		12.37	0.0E+00	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6805	19466	32487	1.08	0.0E+00	11431474	NT	Homo sapiens sodium channel, nonvoltage-gated 1, beta (Liddle syndrome) (SCNN1B), mRNA
6807	19468	32490	0.6	0.0E+00	BE313075.1	EST_HUMAN	601150662F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6807	19468	32491	0.6	0.0E+00	BE313075.1	EST_HUMAN	601150662F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6822	19463	32505	2.69	0.0E+00	BF569805.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6837	19469		2.32	0.0E+00	J03080.1	NT	Human MYCL2 gene, complete cds
6845	19545	32573	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6845	19545	32574	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6846	19546	32575	1.18	0.0E+00	M38113.1	NT	Human neurofibromin type 1 gene, exon x8
6858	17935	30571	3.2	0.0E+00	11420775	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
6859	17936	30572	0.74	0.0E+00	A1419969.1	EST_HUMAN	ig53c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN_P22059 OXYSTEROL-BINDING PROTEIN ;
6859	17936	30573	0.74	0.0E+00	A1419969.1	EST_HUMAN	ig53c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN_P22059 OXYSTEROL-BINDING PROTEIN ;
6863	17940	30576	0.78	0.0E+00	BE256708.1	EST_HUMAN	60115515F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356330 5'
6874	17960	30548	0.58	0.0E+00	BE949455.1	EST_HUMAN	601496743F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898739 5'
6884	17960	30514	1.05	0.0E+00	AU118478.1	EST_HUMAN	AU118478 HEMBA1 Homo sapiens cDNA clone HEMBA1003679 5'
6887	17963	30518	8.08	0.0E+00	BE262841.1	EST_HUMAN	60114894F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3501829 5'
6888	17964	30519	2.26	0.0E+00	Z37978.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6888	17964	30520	2.26	0.0E+00	Z37978.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6889	17965	30521	3.26	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6889	17965	30522	3.26	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6894	17970	30527	1.09	0.0E+00	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
6899	19637	32681	1.03	0.0E+00	BE762770.1	EST_HUMAN	QV3-NT0022-140600-223-f01 NT0022 Homo sapiens cDNA
6904	19642	32687	2.37	0.0E+00	BF569805.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6908	19646	32692	4.53	0.0E+00	L01978.1	NT	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
6913	19650	32696	0.79	0.0E+00	AW502362.1	EST_HUMAN	UI-HF-BR0p-aka-d-10-q-J1.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
6913	19650	32697	0.79	0.0E+00	AW502362.1	EST_HUMAN	UI-HF-BR0p-aka-d-10-q-J1.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
6922	19658	32704	0.7	0.0E+00	AL039981.1	EST_HUMAN	DKFZp434D2211_r1 434 (synonym: hles3) Homo sapiens cDNA clone DKFZp434D2211 5'
6922	19658	32705	0.7	0.0E+00	AL039981.1	EST_HUMAN	DKFZp434D2211_r1 434 (synonym: hles3) Homo sapiens cDNA clone DKFZp434D2211 5'
6929	19665	32711	5.87	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
6934	19668	32715	2.33	0.0E+00	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
6972	19454	32474	1.18	0.0E+00	AL049784.1	NT	Novel human gene mapping to chromosome 13
7009	19700	32754	0.65	0.0E+00	AB026993.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7008	19700	32755	0.65	0.0E+00	AB026893.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7013	19705	32761	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7013	19705	32762	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7019	19711	32768	1.2	0.0E+00	AW954806.1	EST_HUMAN	EST366876 MAGE resequencing, MAGE Homo sapiens cDNA
7020	19712	32769	0.9	0.0E+00	BE254103.1	EST_HUMAN	601113958F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354566 5'
7033	19725	32781	0.98	0.0E+00	LD1973.1	NT	Human type VI sodium channel alpha polypeptide (SCN4A) gene, exon 14
7041	19732	32791	0.84	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7041	19732	32792	0.84	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7047	19738	32799	2.73	0.0E+00	AU133213.1	EST_HUMAN	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001556 5'
7062	19753	32818	0.95	0.0E+00	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
7064	19755	32820	0.56	0.0E+00	AA312125.1	EST_HUMAN	EST182818 Jurkat T-cells VI Homo sapiens cDNA 5' end
7069	19760	32825	2.57	0.0E+00	AU143706.1	EST_HUMAN	AU143706 Y79AA1 Homo sapiens cDNA clone Y79AA1002365 5'
7070	19761	32825	0.94	0.0E+00	4758839	NT	Homo sapiens netrin 1 (NTN1), mRNA
7079	19770	32834	1.32	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7079	19770	32835	1.32	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7100	17981	30495	2.54	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7100	17981	30498	2.54	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7122	19810	32876	5.01	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7122	19810	32877	5.01	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7137	19824	32891	0.55	0.0E+00	AF227744.1	NT	Homo sapiens voltage-dependent calcium channel alpha 1G subunit isoform ae (CACNA1G) mRNA, complete cds
7156	19843	32911	37.67	0.0E+00	AI128344.1	EST_HUMAN	qc67a07.x1 Soares_placenta_8to9weeks_2NBHP8b9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR, contains element HGR repetitive element;
7158	19843	32912	37.67	0.0E+00	AI128344.1	EST_HUMAN	qc67a07.x1 Soares_placenta_8to9weeks_2NBHP8b9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR, contains element HGR repetitive element;
7158	19845	32914	0.66	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7158	19845	32915	0.66	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7161	19848	32918	4.65	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7161	19848	32919	4.65	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7163	19850		15.23	0.0E+00	BF337375.1	EST_HUMAN	602030509F1 NCJ_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4182839 5'
7165	19852	32921	2.85	0.0E+00	AA128453.1	EST_HUMAN	zr60709.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:562601 5' similar to TR:G806562 G806562 NEBULIN;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7170	19856	32927	0.7	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0226_t1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0226 5'
7170	19856	32928	0.7	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0226_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0226 5'
7208	19893	32969	1.09	0.0E+00	BE296499.1	EST_HUMAN	601174576F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529794 5'
7210	19895	32970	1	0.0E+00	11427968	NT	Homo sapiens hypothetical protein (FLJ20261), mRNA
7213	19898		1.42	0.0E+00	AU118607.1	EST_HUMAN	AU118607 HEMBA1 Homo sapiens cDNA clone HEMBA1003989 5'
7214	19899	32973	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7214	19899	32974	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7226	19911	32984	0.87	0.0E+00	AF245505.1	NT	Homo sapiens adiclin mRNA, complete cds
7232	19917	32989	8.04	0.0E+00	X70172.1	NT	H. sapiens DNA for ZNGP2 pseudogene, exon 4
7234	19919	32991	8.51	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7234	19919	32992	8.51	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7247	19932	33007	0.86	0.0E+00	AW956503.1	EST_HUMAN	Human P2x1 receptor mRNA, complete cds
							EST368573 IMAGE resequences, MAGD Homo sapiens cDNA
7249	19934	33009	0.56	0.0E+00	BE672445.1	EST_HUMAN	7a60108.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:3223167 3' similar to gb.M54911_rna1 IG
7250	19935	33010	2.52	0.0E+00	AW950516.1	EST_HUMAN	HEAVY CHAIN PRECURSOR V-11 REGION (HUMAN);
7273	19957	33033	0.57	0.0E+00	AF001543.1	EST_HUMAN	EST362586 IMAGE resequences, MAGA Homo sapiens cDNA
7273	19957	33034	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa, S.C.) Homo sapiens cDNA clone kappa_200
7273	19957	33035	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa, S.C.) Homo sapiens cDNA clone kappa_200
7282	19975		0.56	0.0E+00	M80354.1	NT	Human BTf3 protein homologue gene, complete cds
7293	19976	33053	0.98	0.0E+00	BE408293.1	EST_HUMAN	601302679F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3637434 5'
7305	19988	33064	0.6	0.0E+00	AW402542.1	EST_HUMAN	UH-F-BK0-aas-g-07-0-JL1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054924 5'
7322	20005		1.43	0.0E+00	R87430.1	EST_HUMAN	ym88h10.r1 Scores adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:168051 5'
							x639a05.y1 NCI_CGAP_Lu31 Homo sapiens cDNA clone IMAGE:2578640 5' similar to TR:Q08050 Q08050
							HNf3/FH TRANSCRIPTION FACTOR GENESIS :
7323	20008	33083	1.88	0.0E+00	AW239326.1	EST_HUMAN	HNf3/FH TRANSCRIPTION FACTOR GENESIS :
7342	20023		1.31	0.0E+00	AU117553.1	EST_HUMAN	AU117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5'
7344	20025	33101	3.67	0.0E+00	11427135	NT	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
7366	20046	33125	0.58	0.0E+00	BF229235.1	EST_HUMAN	MR0-AN0083-270900-004-f07 AN0083 Homo sapiens cDNA
7372	20052	33133	0.67	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
7397	20075	33154	1.18	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7397	20075	33155	1.18	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7406	20083	33166	0.92	0.0E+00	AU118767.1	EST_HUMAN	AU118767 HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5'
7460	20133	33223	4.16	0.0E+00	AI752561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random

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Table 4  
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7460	20133	33224	4.16	0.0E+00	A1752561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
7535	20205	33301	1.83	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7535	20205	33302	1.83	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7543	20213	33313	1.14	0.0E+00	U74315.1	EST_HUMAN	HSU74315 Human chromosome 14 Homo sapiens cDNA clone 1-4
7557	20227	33330	1.1	0.0E+00	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
7570	20239	33343	2.28	0.0E+00	AW672785.1	EST_HUMAN	ba01e06.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823108 5' similar to SW:P101_PIG O02696 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT ;
7570	20239	33344	2.28	0.0E+00	AW672785.1	EST_HUMAN	ba01e06.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823108 5' similar to SW:P101_PIG O02696 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT ;
7586	20254	33360	1.97	0.0E+00	AJ825504.1	EST_HUMAN	wb17g05.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 AIBC1 ;
7586	20254	33361	1.97	0.0E+00	AJ825504.1	EST_HUMAN	wb17g05.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 AIBC1 ;
7594	20262	33370	1.51	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7599	20265	33373	1.09	0.0E+00	N76128.1	EST_HUMAN	za86e05.s1 Soares_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:299456 3'
7604	20270	33377	5.87	0.0E+00	BF217905.1	EST_HUMAN	601885465F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103729 5'
7613	20278	33387	5.41	0.0E+00	AU129622.1	EST_HUMAN	AU129622 NT2RP2 Homo sapiens cDNA clone NT2RP2005613 5'
7633	25117	33406	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e09 3'
7633	25117	33407	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e09 3'
7636	20301	33409	8.26	0.0E+00	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7643	20308	33418	1.13	0.0E+00	AV758467.1	EST_HUMAN	AV758467 BM Homo sapiens cDNA clone BMFBGG05 5'
7645	20309	33417	6.31	0.0E+00	BE739870.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7645	20309	33418	6.31	0.0E+00	BE739870.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7646	20310	33419	1.18	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
7646	20310	33420	1.18	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
7647	20311	33421	0.71	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
7647	20311	33422	0.71	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
7680	20344	33456	1.81	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'



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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7690	20344	33457	1.81	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884298 5'
7720	20384	33498	0.63	0.0E+00	W52673.1	EST_HUMAN	z601f0.1 Pancreatic Islet Homo sapiens cDNA clone IMAGE:338443 5'
7734	20398	33513	0.56	0.0E+00	AW402332.1	EST_HUMAN	UJ-HF-BKO-aa1-b-08-Q-UJ.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3053915 5'
7735	20400	33515	0.76	0.0E+00	AA760692.1	EST_HUMAN	mz13a08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gb:U01828 MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7735	20400	33516	0.76	0.0E+00	AA760692.1	EST_HUMAN	mz13a08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gb:U01828 MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7752	20448	33572	0.84	0.0E+00	AU133187.1	EST_HUMAN	AU133187 NT2RP4 Homo sapiens cDNA clone NT2RP4001507 5'
7812	20507	33630	0.82	0.0E+00	BE13013.1	EST_HUMAN	601150347F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503050 5'
7824	20519	33645	1.13	0.0E+00	AA149781.1	EST_HUMAN	z601c06.1 Stratagene colon (#637204) Homo sapiens cDNA clone IMAGE:566410 5'
7837	20532	33659	0.84	0.0E+00	BF026628.1	EST_HUMAN	601672310F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955131 5'
7849	20544	33672	0.45	0.0E+00	AA017021.1	EST_HUMAN	z633008.1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360831 5'
7866	20561	33688	2.31	0.0E+00	BE739046.1	EST_HUMAN	601305658F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3635903 5'
7881	20576	33703	10.46	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7881	20576	33704	10.46	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7908	20604	33734	0.74	0.0E+00	AW674581.1	EST_HUMAN	b634d02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O64652 O64652 F17K2.26 PROTEIN.;
7909	20604	33735	0.74	0.0E+00	AW674581.1	EST_HUMAN	b634d02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O64652 O64652 F17K2.26 PROTEIN.;
7916	20611	33741	3.91	0.0E+00	AA397551.1	EST_HUMAN	z81b04.1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT).;
7918	20613	33742	1.41	0.0E+00	AW387131.1	EST_HUMAN	MRO-ST0031-06T099-003-at11 ST0031 Homo sapiens cDNA Homo sapiens mRNA for KIAA0894 protein, partial cds
7921	20616	33744	0.73	0.0E+00	AB020691.1	NT	AU142402 Y79AA1 Homo sapiens cDNA clone Y79AA1000277 5'
7926	20621	33748	1.63	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7926	20621	33749	1.93	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7942	20637	33764	1.09	0.0E+00	W95278.1	EST_HUMAN	z605d01.1 Soares fetal heart NBH119W Homo sapiens cDNA clone IMAGE:358081 5'
7942	20637	33765	1.09	0.0E+00	W95278.1	EST_HUMAN	z605d01.1 Soares fetal heart NBH119W Homo sapiens cDNA clone IMAGE:358081 5'
7944	20639		6.89	0.0E+00	BF673096.1	EST_HUMAN	602153008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294128 5'
7948	20643		0.67	0.0E+00	AU134114.1	EST_HUMAN	AU134114 OVARC1 Homo sapiens cDNA clone OVARC1001296 5'
7962	20657	33782	0.95	0.0E+00	BF525534.1	EST_HUMAN	602066632F1 NCI_CGAP_Bn64 Homo sapiens cDNA clone IMAGE:4212727 5'
7962	20657	33783	0.95	0.0E+00	BF525534.1	EST_HUMAN	602066632F1 NCI_CGAP_Bn64 Homo sapiens cDNA clone IMAGE:4212727 5'
7992	20687	33813	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P092.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761P092 5'
7992	20687	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P092.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761P092 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8035	20730		1.32	0.0E+00	BE87693.1	EST_HUMAN	601485254F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887773 5'
8057	20751	33882	2.48	0.0E+00	AW500549.1	EST_HUMAN	U1-HF-BN0-ak-F01-Q-J1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077486 5'
8065	20759	33888	16.05	0.0E+00	AW157233.1	EST_HUMAN	au93b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783789 3' similar to TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1]; Xa07d12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2867639 3' similar to contains element OFR repetitive element;
8082	20776	33906	0.68	0.0E+00	AW072395.1	EST_HUMAN	Homo sapiens centrosomal protein 2 (CEP2), mRNA
8099	20783	33924	1.09	0.0E+00	11421722	NT	
8102	20786	33927	1.07	0.0E+00	W01616.1	EST_HUMAN	z336d05.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:294633 5'
8104	20798	33929	1.22	0.0E+00	BE745897.1	EST_HUMAN	601578185F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926998 5'
8104	20798	33930	1.22	0.0E+00	BE745897.1	EST_HUMAN	601578185F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926998 5'
8115	20809	33943	1.46	0.0E+00	AJ271735.1	NT	Homo sapiens Xa pseudautosomal region, segment 1/2
8154	20848	33980	0.95	0.0E+00	AI367350.1	EST_HUMAN	q65c12.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673 KIAA0164 PROTEIN.;
8165	20859	33991	2.63	0.0E+00	BE674157.1	EST_HUMAN	7d76a04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278862 3' similar to TR:O95793 O95793 STAUFEN PROTEIN.;
8167	20861	33993	1.19	0.0E+00	AI885871.1	EST_HUMAN	w60b10.x1 NCI_CGAP_Brr25 Homo sapiens cDNA clone IMAGE:2429275 3' similar to SW:COGT_HUMAN P50281 MATRIX METALLOPROTEINASE-14 PRECURSOR.;
8180	20874	34009	1.07	0.0E+00	BE563650.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8180	20874	34010	1.07	0.0E+00	BE563650.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8189	20883	34020	1.63	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8189	20883	34021	1.63	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8191	20885	34023	3.2	0.0E+00	AA403192.1	EST_HUMAN	z66602.r1 Soares_tetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8191	20885	34024	3.2	0.0E+00	AA403192.1	EST_HUMAN	z66602.r1 Soares_tetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8231	20925		4.53	0.0E+00	AA398511.1	EST_HUMAN	z73a08.a1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727958 3' similar to gb:S85655 PROHIBITIN (HUMAN);
8240	20934	34071	0.56	0.0E+00	BE837593.1	EST_HUMAN	RC2-FN0094-120600-073-h07 FN0094 Homo sapiens cDNA
8241	20935	34072	1.17	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221289-046-c07 DT0045 Homo sapiens cDNA
8241	20935	34073	1.17	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221289-046-c07 DT0045 Homo sapiens cDNA
8260	20954	34092	1.88	0.0E+00	BE612586.1	EST_HUMAN	601452412F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856179 5'
8260	20954	34093	1.88	0.0E+00	BE612586.1	EST_HUMAN	601452412F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856179 5'
8275	20969	34110	1.52	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8275	20969	34111	1.52	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

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8286	20980	34120	1.3	0.0E+00	AI884477.1	EST_HUMAN	wn33a11.x1 NCI_CGAP_U4 Homo sapiens cDNA clone IMAGE:2437724 3' similar to TR:O75457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA. ;
8293	20987	34126	1.27	0.0E+00	AA502294.1	EST_HUMAN	ne25d10.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:882259 3' similar to TR:G1136434 G1136434 KIAA0187 PROTEIN. ;
8298	20992		0.59	0.0E+00	11416789	NT	Homo sapiens protocadherin beta 3 (P0DHB3), mRNA
8305	20998	34137	1.02	0.0E+00	AI580780.1	EST_HUMAN	ta04f11.x1 Soares pregnant uterus NBHPU Homo sapiens cDNA clone IMAGE:2043117 3'
8308	21002		1.84	0.0E+00	BE890797.1	EST_HUMAN	601431238F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916589 5'
8334	21027	34163	0.72	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8334	21027	34164	0.72	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8335	21028	34165	2.24	0.0E+00		NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
8335	21028	34166	2.24	0.0E+00	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
8339	21032	34169	0.59	0.0E+00	U88084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8339	21032	34170	0.59	0.0E+00	U88084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8404	21097	34233	0.66	0.0E+00	AJ251760.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and XLalphas (partial) genes
8409	21102	34239	2.63	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8409	21102	34240	2.63	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8409	21102	34241	2.63	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8424	21117	34255	0.88	0.0E+00	U82979.1	NT	Human immunoglobulin-like transcript-3 mRNA, complete cds
8465	21157	34300	0.88	0.0E+00	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8465	21157	34301	0.88	0.0E+00	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8468	21160	34303	2.28	0.0E+00	AU131671.1	EST_HUMAN	AU131671 NT2RP3 Homo sapiens cDNA clone NT2RP3003016 5'
8483	21175	34320	0.65	0.0E+00	11426572	NT	Homo sapiens immunoglobulin superfamily, member 2 (IGSF2), mRNA
8487	21179		1.92	0.0E+00	AW513513.1	EST_HUMAN	RETROVIRUS-RELATED POLYPROTEIN (HUMAN);
8489	21181	34323	14.55	0.0E+00	D52650.1	EST_HUMAN	5'
8520	21212	34356	4.04	0.0E+00	BE378495.1	EST_HUMAN	601236488F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608709 5'
8526	21218	34360	2.58	0.0E+00	AA410545.1	EST_HUMAN	2832604.r1 Soares ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:724062 5'
8528	21220		2.91	0.0E+00	BF313946.1	EST_HUMAN	601900571F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129744 5'
8535	21227	34369	0.52	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
8540	21232	34374	1.46	0.0E+00	AW139673.1	EST_HUMAN	UI-H-B11-adr-e-12-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'
8540	21232	34375	1.46	0.0E+00	AW139673.1	EST_HUMAN	UI-H-B11-adr-e-12-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8545	21237		0.49	0.0E+00	AI640190.1	EST_HUMAN	wa30b10.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2295579 3' similar to TR:O15044
8564	21266	34393	0.76	0.0E+00	BF377897.1	EST_HUMAN	O15044 KIAA0335.1
8574	21266	34406	0.59	0.0E+00	AL163301.2	NT	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
8580	21272	34410	5.89	0.0E+00	BE280272.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C101
8585	21277	34414	2.51	0.0E+00	BF700165.1	EST_HUMAN	601150051F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502836 5'
8585	21277	34415	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8585	21277	34416	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8585	21277	34416	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8600	21292	34434	0.53	0.0E+00	AI458722.1	EST_HUMAN	IK13111.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2150849 3'
8626	21318	34460	0.88	0.0E+00	AL449770.1	EST_HUMAN	AL449770 Homo sapiens fetal brain (Stavrides GS) Homo sapiens cDNA
8631	21323	34484	7.75	0.0E+00	AA962527.1	EST_HUMAN	cr80g02.s1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602194 3' similar to gb:M36072 60S
8637	21329	34472	3.09	0.0E+00	10947037	NT	RIBOSOMAL PROTEIN L7A (HUMAN);
8637	21329	34473	3.09	0.0E+00	10947037	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8660	21352	34499	1.3	0.0E+00	Y11107.3	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8662	21354	34501	1.62	0.0E+00	BE278917.1	EST_HUMAN	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
8672	21384		1.91	0.0E+00	AV718377.1	EST_HUMAN	601156330F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139734 5'
8679	21371	34516	3.33	0.0E+00	AW337277.1	EST_HUMAN	AV718377 FHTB Homo sapiens cDNA clone FHTBAF11 5'
8685	21377	34521	1.12	0.0E+00	AU124051.1	EST_HUMAN	xw73c07.x1 NCL_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2833644 3' similar to gb:X63587
8761	21453	34601	1.05	0.0E+00	AU140704.1	EST_HUMAN	INTEGRIN BETA-4 SUBUNIT PRECURSOR (HUMAN);
8771	21463	34610	0.88	0.0E+00	AB007923.1	NT	AU124051 NT2RM2 Homo sapiens cDNA clone NT2RM2001575 5'
8776	21468	34614	0.54	0.0E+00	R17132.1	EST_HUMAN	AU140704 PLACE4 Homo sapiens cDNA clone PLACE4000089 5'
8776	21468	34615	0.54	0.0E+00	R17132.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8780	21472	34617	4.43	0.0E+00	AW592233.1	EST_HUMAN	yg09e09.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:31674 5'
8780	21472	34618	4.43	0.0E+00	AW592233.1	EST_HUMAN	yg09e09.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:31674 5'
8815	21507	34632	0.47	0.0E+00	AU128804.1	EST_HUMAN	hrf4a09.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835086 3'
8827	21519	34664	1.04	0.0E+00	AV714764.1	EST_HUMAN	hrf4a09.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835086 3'
8843	21535	34679	2.79	0.0E+00	AL040428.1	EST_HUMAN	AU128804 NT2RP2 Homo sapiens cDNA clone NT2RP2004245 5'
8843	21535	34680	2.79	0.0E+00	AL040428.1	EST_HUMAN	AV714764 DCB Homo sapiens cDNA clone DCBAUA06 5'
8849	21540	34686	1.17	0.0E+00	AF133901.1	NT	DKFZp434C1814_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1814 3'
8851	21542	34689	2.03	0.0E+00	AB040945.1	NT	DKFZp434C1814_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1814 3'
8858	21549	34696	0.65	0.0E+00	BF675505.1	EST_HUMAN	DKFZp434C1814_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1814 3'
							Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
							partial cds
							Homo sapiens mRNA for KIAA1512 protein, partial cds
							602138483F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274708 5'

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Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8860	21551		0.8	0.0E+00	BF058289.1	EST_HUMAN	7k2b03.x1 NCJ CGAP_Oy18 Homo sapiens cDNA clone IMAGE:3476692 3' similar to TR:O36448 O36448 S GAG. ;
8869	21580	34720	3.97	0.0E+00	11422857	NT	Homo sapiens tumor protein p73 (TP73), mRNA
8898	21589	34729	1.19	0.0E+00	K01241.1	NT	Human Ig rearranged H-chain epsilon-3 pseudogene, constant region
8905	21596	34737	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8905	21596	34738	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8910	21601	34744	1.79	0.0E+00	AV660739.1	EST_HUMAN	AV660739 GLC Homo sapiens cDNA clone GLCGKG12 3'
8916	21607	34750	2.88	0.0E+00	7706638	NT	Homo sapiens polycystin-L (PKDL), mRNA
8921	21612	34755	0.5	0.0E+00	BE763326.1	EST_HUMAN	601583304F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942553 5'
8922	21613	34756	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1251 protein, partial cds
8922	21613	34757	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1251 protein, partial cds
8934	21625	34779	0.91	0.0E+00	H73937.1	EST_HUMAN	yu03h08.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:232767 5'
8944	21635	34780	4.57	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8944	21635	34780	4.57	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8954	21645	34795	0.46	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856100 5'
8954	21645	34796	0.46	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856100 5'
8957	21648		0.45	0.0E+00	M89986.1	NT	Human polymorphic loci in Xq28
8959	21650	34800	3.66	0.0E+00	X14766.1	NT	Human mRNA for GABA-A receptor, alpha 1 subunit
8960	21670	34820	2.03	0.0E+00	A1061395.1	EST_HUMAN	an29e04.x1 Gesalar Wilms tumor Homo sapiens cDNA clone IMAGE:1700094 3'
8965	21675	34824	1.95	0.0E+00	A1954607.1	EST_HUMAN	wc34r12.x1 NCJ CGAP GC8 Homo sapiens cDNA clone IMAGE:2473150 3' similar to SW:MGB3_HUMAN
8969	21679	34828	4.65	0.0E+00	92556596	NT	O15480 MELANOMA-ASSOCIATED ANTIGEN B3 ;
9000	21680	34840	1.42	0.0E+00	AW95831.1	EST_HUMAN	Homo sapiens protocadherin alpha 8 (PCDH8), mRNA
9011	21701	34851	2.46	0.0E+00	9635487	NT	Human endogenous retrovirus, complete genome
9026	21716	34869	1.53	0.0E+00	AU142682.1	EST_HUMAN	AU142682 Y79AA1 Homo sapiens cDNA clone Y79AA1000678 5'
9042	21732	34887	1.76	0.0E+00	11436995	NT	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
9043	21733		1.18	0.0E+00	BE410768.1	EST_HUMAN	601301676F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3836163 5'
9056	21745	34904	1.83	0.0E+00	BF002024.1	EST_HUMAN	7q97h12.x1 NCJ CGAP Co16 Homo sapiens cDNA clone IMAGE:3314471 3' similar to TR:Q8UJH62
9070	21759	34920	1.1	0.0E+00	AB011150.1	NT	Q8UJH62 HYPOTHETICAL 42.5 KD PROTEIN. ;
9071	21760	34921	7.72	0.0E+00	BE794823.1	EST_HUMAN	Homo sapiens mRNA for KIAA0578 protein, partial cds
9075	21764	34926	0.96	0.0E+00	BE910292.1	EST_HUMAN	601589294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'
9076	21764	34927	0.99	0.0E+00	BE910292.1	EST_HUMAN	RC3-PT0161-290600-011-c05 PT0151 Homo sapiens cDNA
9078	21767	34930	2.93	0.0E+00	AU136228.1	EST_HUMAN	RC3-PT0161-290600-011-c05 PT0151 Homo sapiens cDNA

Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9083	21772	34935	1.27	0.0E+00	BE883843.1	EST_HUMAN	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911988 5'
9083	21772	34936	1.27	0.0E+00	BE883843.1	EST_HUMAN	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911988 5'
9102	21790	34953	0.82	0.0E+00	AB011168.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
9106	21794	34957	1.4	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder I Homo sapiens cDNA 5' end
9106	21794	34958	1.4	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder I Homo sapiens cDNA 5' end
9164	21834	34998	1.13	0.0E+00	AW673469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275
9164	21834	34999	1.13	0.0E+00	AW673469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275
9188	21867	35031	1.62	0.0E+00	BE207063.1	EST_HUMAN	KIAA0522 PROTEIN ;
9188	21867	35032	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus
9209	22088	35260	1.61	0.0E+00	BF348013.1	EST_HUMAN	Bcl-xL mRNA, complete cds (MOUSE);
9244	21923	35093	2.77	0.0E+00	BE712515.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus
9277	22031	35201	0.88	0.0E+00	BF034377.1	EST_HUMAN	8020231.60FT NCI CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4188300 5'
9277	22031	35202	0.88	0.0E+00	BF034377.1	EST_HUMAN	CV2-HT0698-250700-282-b08 HT0698 Homo sapiens cDNA
9283	22037	35209	0.5	0.0E+00	A1908351.1	EST_HUMAN	601455116FT NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9286	22040	35211	0.81	0.0E+00	5803089	NT	601455116FT NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9286	22040	35212	0.81	0.0E+00	5803089	NT	RC-BT108-040399-032 BT108 Homo sapiens cDNA
9296	21963	35137	1.5	0.0E+00	AL042278.1	EST_HUMAN	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9331	21998	35171	1.28	0.0E+00	A1088043.1	EST_HUMAN	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9338	20409	33524	0.72	0.0E+00	BF309962.1	EST_HUMAN	DKFZp434L0120_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434L0120 5'
9340	20411	33527	2.51	0.0E+00	11560151	NT	ow60h01.x1 Scarses NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1651249 3' similar to TR:Q14677 Q14677 KIAA0171 PROTEIN ;
9340	20411	33528	2.51	0.0E+00	11560151	NT	801892245F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138086 5'
9342	20413	33531	9.88	0.0E+00	A1290909.1	EST_HUMAN	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9342	20413	33532	9.88	0.0E+00	A1290909.1	EST_HUMAN	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9343	20414	33533	1.99	0.0E+00	AW953836.1	EST_HUMAN	qm09a06.x1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
9370	21945	35117	3.07	0.0E+00	AF153466.1	NT	P28316 60S RIBOSOMAL PROTEIN L23A ;
							qm09a06.x1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
							qm09a06.x1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
							EST360263 IMAGE:1881298 3' similar to SW:RL2B_HUMAN
							EST360263 IMAGE:1881298 3' similar to SW:RL2B_HUMAN
							Homo sapiens polycystic kidney disease 2-like protein (PKD2L) gene, exon 8

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9373	21948	35121	0.66	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9373	21948	35122	0.66	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9382	22044		7.32	0.0E+00	BE255829.1	EST_HUMAN	601103942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'
9385	22047	35219	1.09	0.0E+00	BE781382.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9385	22047	35220	1.09	0.0E+00	BE781382.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9387	22049	35221	12.62	0.0E+00	AW163779.1	EST_HUMAN	au86c04.Y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to gb.M36072
9409	22071	35243	2.98	0.0E+00	BE263191.1	EST_HUMAN	60S RIBOSOMAL PROTEIN L7A (HUMAN);
9427	22105	35278	4.29	0.0E+00	C06158.1	EST_HUMAN	601145054F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'
9427	22105	35279	4.29	0.0E+00	C06158.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5805
9429	22107	35282	2.63	0.0E+00	BE746215.1	EST_HUMAN	601578683F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927548 5'
9439	22117	35292	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9439	22117	35293	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9439	22117	35294	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9459	22009	35179	1.44	0.0E+00	BE900549.1	EST_HUMAN	601673425F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'
9475	22128	35307	1.01	0.0E+00	AV701829.1	EST_HUMAN	AV701829 ADB Homo sapiens cDNA clone ADBBYH01 5'
9489	22142	35321	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT2E) gene, complete cds
9489	22142	35322	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT2E) gene, complete cds
9522	22175	35359	0.94	0.0E+00	BE082977.1	EST_HUMAN	RC2-BT0642-130300-017-g01 BT0642 Homo sapiens cDNA
9541	22194	35379	1.74	0.0E+00	AW500293.1	EST_HUMAN	U1HF-BNO-akg-b-12-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9541	22194	35380	1.74	0.0E+00	AW500293.1	EST_HUMAN	U1HF-BNO-akg-b-12-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9550	22203	35386	1.45	0.0E+00	AF028308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families
9550	22203	35387	1.45	0.0E+00	AF028308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families
9552	22205	35388	0.69	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9552	22205	35389	0.69	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9561	22214	35400	0.54	0.0E+00	W56629.1	EST_HUMAN	zdf16e11.r1 Soares fetal heart NbhH19W Homo sapiens cDNA clone IMAGE:340844 5'
9561	22214	35401	0.54	0.0E+00	W56629.1	EST_HUMAN	zdf16e11.r1 Soares fetal heart NbhH19W Homo sapiens cDNA clone IMAGE:340844 5'
9572	22225	35410	1.83	0.0E+00	AB035356.1	NT	Homo sapiens mRNA for neurixin I-alpha protein, complete cds
9576	22229		0.8	0.0E+00	AI124780.1	EST_HUMAN	am56a11.x1 Johnson frontal cortex Homo sapiens cDNA clone IMAGE:1539548 3'
9578	22231	35415	3.59	0.0E+00	AW500326.1	EST_HUMAN	U1HF-BNO-akg-c-07-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077364 5'
9624	22277	35466	1.53	0.0E+00	AF009668.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9652	22304	35499	2.23	0.0E+00	S78466.1	NT	ALGF=androgen-induced growth factor ALGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9652	22304	35500	2.23	0.0E+00	S78466.1	NT	ALGF=androgen-induced growth factor ALGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9655	22307	35505	2.93	0.0E+00	BE563320.1	EST_HUMAN	601334803F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:368880 5'
9674	22326	35521	1.84	0.0E+00	AW363135.1	EST_HUMAN	CM2-CT0311-301108-043-111 CT0311 Homo sapiens cDNA
9682	22343	35537	0.46	0.0E+00	11436432	NT	Homo sapiens multimerin (MMRN), mRNA
9693	22344	35538	0.51	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
9702	22353	35548	0.64	0.0E+00	BE206710.1	EST_HUMAN	b62601.x1 NIH_MGC_5 Homo sapiens cDNA clone IMAGE:2984000 3'
9719	22370	35568	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9719	22370	35569	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9726	22379	35581	0.77	0.0E+00	AW500936.1	EST_HUMAN	UI-HF-BP0p-air-f05-0-UJ.1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072897 5'
9733	22384	35586	9.08	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
9734	22385	35588	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9734	22385	35589	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9747	22398	35603	1.73	0.0E+00	7662067	NT	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA
9765	22416	35623	1.59	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5'
9770	22421	35629	1.53	0.0E+00	AL041084.2	EST_HUMAN	DKFZp434B2416_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2416 5'
9780	22431	35636	2.54	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9781	22432	35637	2.37	0.0E+00	AF152308.1	NT	Homo sapiens protocadherin alpha 12 (PCDH-alpha12) mRNA, complete cds
9808	22459	35664	2.63	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9808	22459	35665	2.63	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9824	22476	35678	1.81	0.0E+00	BF062898.1	EST_HUMAN	MR4-TN0114-110900-101-e04 TN0114 Homo sapiens cDNA
9854	22504	35704	2.41	0.0E+00	BE280793.1	EST_HUMAN	601155227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138798 5'
9864	22514	35710	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9864	22514	35711	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9873	22523	35717	3.03	0.0E+00	AW236289.1	EST_HUMAN	xn72b01.x1 NC1_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2699977 3' similar to gb.X02152_cds1 L- LACTATE DEHYDROGENASE M CHAIN (HUMAN);
9874	22524	35718	1.08	0.0E+00	AA341305.1	EST_HUMAN	EST46740 Fetal kidney II Homo sapiens cDNA 5' end
9804	22553	35748	0.97	0.0E+00	AW964113.1	EST_HUMAN	EST376186 MAGE resequences, MACH Homo sapiens cDNA
9815	22564	35759	7.01	0.0E+00	AU143873.1	EST_HUMAN	AU143873 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'
9815	22564	35760	7.01	0.0E+00	AU143873.1	EST_HUMAN	AU143873 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'



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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9918	22667	35763	2.98	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
9921	22669	35765	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9921	22669	35766	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9956	22804	35809	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9956	22804	35810	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9972	22820	35824	2.08	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/Importin7 and partial ZNF143 gene
9972	22820	35826	2.08	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/Importin7 and partial ZNF143 gene
9977	22826	35832	1.04	0.0E+00	AV695712.1	EST_HUMAN	Homo sapiens partial RANBP7 gene for RANBP7/Importin7 and partial ZNF143 gene
9977	22826	35833	1.04	0.0E+00	AV695712.1	EST_HUMAN	Homo sapiens partial RANBP7 gene for RANBP7/Importin7 and partial ZNF143 gene
9983	22831	35840	0.74	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
9985	22833	35843	3.11	0.0E+00	AA196387.1	EST_HUMAN	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
10011	22859	35873	1	0.0E+00	AA131248.1	EST_HUMAN	z31f01.1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10011	22859	35874	1	0.0E+00	AA131248.1	EST_HUMAN	z31f01.1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10056	22704	35922	1.44	0.0E+00	AF178308.1	NT	Homo sapiens KIF4 (KIF4) mRNA, complete cds
10101	22749	35964	0.92	0.0E+00	BE880688.1	EST_HUMAN	601491565F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893657 5'
10112	22760	35972	6.22	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10112	22760	35973	6.22	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10117	22765	35977	0.97	0.0E+00	AU127403.1	EST_HUMAN	AU127403 NT2RP2 Homo sapiens cDNA clone NT2RP2001212 5'
10127	22775	35988	0.87	0.0E+00	BE986511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10127	22775	35989	0.87	0.0E+00	BE986511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10144	22792	36007	0.68	0.0E+00	BE897487.1	EST_HUMAN	601432317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917453 5'
10154	22802	36020	0.87	0.0E+00	AA311624.1	EST_HUMAN	EST182353 Jurkat T-cells V1 Homo sapiens cDNA 5' end
10155	22803	36021	1.01	0.0E+00	4758927	NT	Homo sapiens neurexin III (NRXN3) mRNA
10186	22814	36032	0.67	0.0E+00	BE891113.1	EST_HUMAN	601432228F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10189	22817	36035	1.13	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10179	22827	36041	1.72	0.0E+00	AB029290.1	NT	Homo sapiens mRNA for actin binding protein ABP620, complete cds
10180	22828	36042	0.46	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987918 5'
10180	22828	36043	0.46	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987918 5'
10187	22835	36048	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10187	22835	36049	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10193	22841	36056	1.06	0.0E+00	AA704457.1	EST_HUMAN	z19b06.s1 Soares_fetal_liver_spleen_INF1S_S1 Homo sapiens cDNA clone IMAGE:450707 3' similar to
10195	22843	36057	0.74	0.0E+00	IM22921.1	NT	gb:M14123_cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10197	22845	36060	5.45	0.0E+00	BF340331.1	EST_HUMAN	Human beta 1,4-galactosyl-transferase mRNA, complete cds
10197	22845	36060	5.45	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4184939 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10197	22845	36061	5.45	0.0E+00	BF340331.1	EST_HUMAN	602037046F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4184939 5'
10222	22870	36082	0.93	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10222	22870	36083	0.93	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10252	22900	36110	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DCB Homo sapiens cDNA clone DCBDDC09 5'
10252	22900	36111	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DCB Homo sapiens cDNA clone DCBDDC09 5'
10282	22930	36143	2.36	0.0E+00	AI631818.1	EST_HUMAN	wa36a03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204
10282	22930	36144	2.36	0.0E+00	AI631818.1	EST_HUMAN	wa36a03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204
10288	22936	36149	0.49	0.0E+00	11545730	NT	Q61204 NOTCH2-LIKE:
10288	22945	36159	1.52	0.0E+00	T03078.1	EST_HUMAN	Homo sapiens Gigaaxonin (GAN), mRNA
10323	22970	36190	0.64	0.0E+00	AU122429	EST_HUMAN	FB23A4 Fetal brain, Stragelene Homo sapiens cDNA clone FB23A4 3'end
10329	22976	36196	0.46	0.0E+00	6005921	NT	AU122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002368 5'
10348	22985	36214	2.5	0.0E+00	BF436218.1	EST_HUMAN	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
10348	22986	36214	0.97	0.0E+00	AV654765.1	EST_HUMAN	na645612.x1 Sceres NSF F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3265271 3'
10369	23015	36231	2.75	0.0E+00	AW517960.1	EST_HUMAN	AV654765 GLC Homo sapiens cDNA clone GLCZC07 3'
10374	23020	36236	8.82	0.0E+00	BE549213.1	EST_HUMAN	xu74601.x1 NCI_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb:M69066 MOESIN (HUMAN);
10389	23035	36251	0.75	0.0E+00	11436005	NT	601078764F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3484703 5'
10414	23060	36279	2.79	0.0E+00	BE781742.1	EST_HUMAN	Homo sapiens hypothetical protein DKFZ761P1010 (DKFZp761P1010), mRNA
10435	23081	36307	1.9	0.0E+00	BE082720.1	EST_HUMAN	601467419F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870700 5'
10435	23081	36308	1.9	0.0E+00	BE082720.1	EST_HUMAN	RC2-BT0642-150200-012-403 BT0642 Homo sapiens cDNA
10442	23088	36316	0.66	0.0E+00	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
10448	23094	36325	0.86	0.0E+00	AI658890.1	EST_HUMAN	1154e07.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2244812 3'
10454	23100	36331	1.33	0.0E+00	BE743215.1	EST_HUMAN	601673896F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835188 5'
10454	23100	36332	1.33	0.0E+00	BE743215.1	EST_HUMAN	601673896F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835188 5'
10459	23105	36335	2.49	0.0E+00	BE617655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845956 3'
10459	23105	36336	2.49	0.0E+00	BE617655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845956 3'
10481	23127	36355	0.57	0.0E+00	H39805.1	EST_HUMAN	yp01at0.r1 Sceres breast 3N6H8st Homo sapiens cDNA clone IMAGE:186138 5'
10508	23154	36380	1.01	0.0E+00	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10510	23156	36382	0.45	0.0E+00	AF081364.1	NT	Synthetic construct CD30 ligand-exotoxin A fusion protein (CD30L-ETA fusion) mRNA, partial cds
10519	23165	36392	1.02	0.0E+00	BE172254.1	EST_HUMAN	MFR0-HT0559-270300-008-e12 HT0559 Homo sapiens cDNA
10519	23165	36393	1.02	0.0E+00	BE172254.1	EST_HUMAN	MFR0-HT0559-270300-008-e12 HT0559 Homo sapiens cDNA
10532	23229	36463	2.76	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CuAAKG05 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10532	23229	36484	2.76	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CUAAG05 5'
10534	23231		2.13	0.0E+00	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
10542	23238	36472	7.02	0.0E+00	AW963563.1	EST_HUMAN	EST375638 IMAGE:3906865 5'
10555	23251	36487	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10555	23251	36488	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10559	23255	36492	2.09	0.0E+00	AW057621.1	EST_HUMAN	wy8169.x1 Soares_NSF_F8_9W_OT_PA_5T Homo sapiens cDNA clone IMAGE:2553065 3' similar to TR:Q60566 Q60566 VDX;
10567	23262	36499	1.6	0.0E+00	BE243270.1	EST_HUMAN	TCAAP3D0917 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project-TCOA Homo sapiens cDNA clone TCAAP0917
10568	23263	36500	2.85	0.0E+00	AI652239.1	EST_HUMAN	MSR1 MSR1 repetitive element;
10568	23263	36501	2.85	0.0E+00	AI652239.1	EST_HUMAN	wb28a12.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element
10573	23268	36506	1.54	0.0E+00	BF306642.1	EST_HUMAN	MSR1 MSR1 repetitive element;
10580	23275	36512	5.06	0.0E+00	11545911	NT	601888704F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122649 5'
10580	23275	36513	5.06	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10596	23290	36528	1.98	0.0E+00	AW404795.1	EST_HUMAN	UHF-BLO-acm-4-04-0-U1.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3056383 5'
10600	23294	36533	3.17	0.0E+00	11424829	NT	Homo sapiens hypothetical protein FLJ20079 (FLJ20079), mRNA
10601	23295	36534	7.47	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E), mRNA
10601	23295	36535	7.47	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E), mRNA
10602	23296	36536	3.68	0.0E+00	AI991827.1	EST_HUMAN	wu32b06.x1 Soares_Dieckgraefe_colon_NHGD Homo sapiens cDNA clone IMAGE:2521715 3'
10605	23299	36540	4.48	0.0E+00	BE882103.1	EST_HUMAN	601506204F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3906865 5'
10609	23303	36542	8.24	0.0E+00	BE891630.1	EST_HUMAN	601434522F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919636 5'
10612	23306	36544	1.66	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10612	23306	36545	1.66	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10619	23312	36551	1.4	0.0E+00	AB014608.1	NT	Homo sapiens mRNA for KIAA0708 protein, partial cds
10619	23312	36552	1.4	0.0E+00	AB014608.1	NT	Homo sapiens mRNA for KIAA0708 protein, partial cds
10628	23321	36559	1.31	0.0E+00	BE903304.1	EST_HUMAN	601674332F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3957343 5'
10631	18484	31403	1.65	0.0E+00	AA195905.1	EST_HUMAN	zp96b11.1 Stragene muscle 937209 Homo sapiens cDNA clone IMAGE:627933 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
10652	23343	36581	5.53	0.0E+00	BE783498.1	EST_HUMAN	601588829F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3643015 5'
10660	23351	36588	1.79	0.0E+00	BE729706.1	EST_HUMAN	601562864F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10660	23351	36589	1.79	0.0E+00	BE729706.1	EST_HUMAN	601562864F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10661	23352	36590	33.99	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH08 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10861	23352	36591	33.99	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH08 5'
10874	23385	36608	9.59	0.0E+00	AW516055.1	EST_HUMAN	xx04g10.x1 NCL CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852226 3' similar to gb:M60854 40S
10880	23371	36613	3.18	0.0E+00	AU135741.1	EST_HUMAN	RIBOSOMAL PROTEIN S16 (HUMAN); AU135741 PLACE1 Homo sapiens cDNA clone PLACE1002764 5'
10888	23377	36617	3.41	0.0E+00	AW593333.1	EST_HUMAN	hg13402.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10886	23377	36618	3.41	0.0E+00	AW593333.1	EST_HUMAN	hg13402.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10888	23377	36619	3.41	0.0E+00	AW593333.1	EST_HUMAN	hg13402.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10888	23379	36620	1.89	0.0E+00	Z34997.1	NT	H sapiens mRNA for H1 histamine receptor
10889	23380	36621	2.97	0.0E+00	F13069.1	EST_HUMAN	HSC3C031 normalized infant brain cDNA Homo sapiens cDNA clone c-3lc03
10700	23391	36628	1.79	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
10706	23396	36634	1.33	0.0E+00	4758281	NT	Homo sapiens Epha7 (EPHA7) mRNA
10706	23396	36635	1.33	0.0E+00	4758281	NT	Homo sapiens Epha7 (EPHA7) mRNA
10718	23407	36648	2.13	0.0E+00	AW338094.1	EST_HUMAN	xx0601.x1 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2832985 3' similar to gb:X17115 (G MU CHAIN C REGION (HUMAN);
10719	23408	36649	4.62	0.0E+00	AW451230.1	EST_HUMAN	UI-H-B13-alk-a-01-0-UI.s1 NCL CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736849 3'
10719	23408	36650	4.62	0.0E+00	AW451230.1	EST_HUMAN	UI-H-B13-alk-a-01-0-UI.s1 NCL CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736849 3'
10721	13021	36652	11.87	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
10723	23411	36652	2.53	0.0E+00	AB014567.1	NT	Homo sapiens mRNA for KIAA0667 protein, partial cds
10738	23425	36670	1.98	0.0E+00	BE289449.1	EST_HUMAN	601119248F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029219 5'
10754	23439	36683	2.04	0.0E+00	AB011117.1	NT	Homo sapiens mRNA for KIAA0545 protein, partial cds
10763	23447	36697	1.71	0.0E+00	AU124108.1	EST_HUMAN	AU124108 NT2RM2 Homo sapiens cDNA clone NT2RM2001675 5'
10771	23454	36697	1.45	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10771	23454	36698	1.45	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10778	23459	36702	4.04	0.0E+00	BE792155.1	EST_HUMAN	601582046F1 NIH_MGC_77 Homo sapiens cDNA clone IMAGE:3936539 5'
10777	23460	36703	59.14	0.0E+00	BF684081.1	EST_HUMAN	602141405F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302432 5'
10778	23461	36706	1.3	0.0E+00	BE269298.1	EST_HUMAN	601186342F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3544259 5'
10781	23464	36706	5.6	0.0E+00	AU118396.1	EST_HUMAN	AU118396 HEMBA1 Homo sapiens cDNA clone HEMBA1003486 5'
10788	23469	36710	6.53	0.0E+00	A1149809.1	EST_HUMAN	q43c03.x1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
10788	23469	36711	6.53	0.0E+00	A1149809.1	EST_HUMAN	q43c03.x1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
10787	23470	36712	3.04	0.0E+00	AW391937.1	EST_HUMAN	QV4-ST0234-121189-032-508 ST0234 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10798	23481	36721		4.39	0.0E+00 AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10798	23481	36722		4.39	0.0E+00 AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10807	23490	36726		9.57	0.0E+00 11424726	NT	Homo sapiens insulin receptor (INSR), mRNA
10814	23497	36733		1.42	0.0E+00 AW804516.1	EST_HUMAN	QY0-UM0093-170400-191-406 UM0093 Homo sapiens cDNA
10814	23497	36734		1.42	0.0E+00 AW804516.1	EST_HUMAN	QY0-UM0093-170400-191-406 UM0093 Homo sapiens cDNA
10815	23498	36735		1.6	0.0E+00 BF340308.1	EST_HUMAN	602037014F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4184979 5'
10817	23500	36738		82.94	0.0E+00 BE261209.1	EST_HUMAN	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'
10821	23504	36743		2.37	0.0E+00 AB028040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10824	23507	36748		1.69	0.0E+00 AB007832.1	NT	Homo sapiens mRNA for KIAA0463 protein, partial cds
10828	23510	36750		3.47	0.0E+00 U50326.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 15-17
10832	23514	36755		1.55	0.0E+00 BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-f07 FT0134 Homo sapiens cDNA
10832	23514	36756		1.55	0.0E+00 BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-f07 FT0134 Homo sapiens cDNA
10838	23520	36762		1.47	0.0E+00 W21826.1	EST_HUMAN	57E10 Human retina cDNA Tsp509-cleaved sublibrary Homo sapiens cDNA not directional
10854	23534	36779		136.91	0.0E+00 AA740782.1	EST_HUMAN	ab32e07.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325412 3' similar to contains element MSR1 repetitive element
10857	23537	36783		2.05	0.0E+00 AW468922.1	EST_HUMAN	ha04h04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'
10863	23543	36790		2.91	0.0E+00 AF252303.1	NT	Homo sapiens signaling lymphocytic activation molecule (SLAM) gene, exon 2
10879	23559	36806		7.34	0.0E+00 C05089.1	EST_HUMAN	C05089 Human heart cDNA (Ynakamura) Homo sapiens cDNA clone 3NHC4817
10886	23566	36814		2.31	0.0E+00 AA746375.1	EST_HUMAN	ca56h01.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1308009 5'
10886	23566	36815		2.31	0.0E+00 AA746375.1	EST_HUMAN	ca56h01.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1308009 5'
10895	23575	36825		3.74	0.0E+00 M78448.1	EST_HUMAN	EST00596 Fetal brain, Stratagene (cat#836206) Homo sapiens cDNA clone HFBCC26
10895	23575	36826		3.74	0.0E+00 M78448.1	EST_HUMAN	EST00596 Fetal brain, Stratagene (cat#836206) Homo sapiens cDNA clone HFBCC26
10898	23578	36827		6.82	0.0E+00 AL157608.1	EST_HUMAN	DKFZp761J2116_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761J2116 5'
10910	23590	36836		5.81	0.0E+00 AU116988.1	EST_HUMAN	AU116988 HEMBA1 Homo sapiens cDNA clone HEMBA1000424 5'
10924	23604	36863		1.64	0.0E+00 AV693956.1	EST_HUMAN	AV693956 GKC Homo sapiens cDNA clone GKCCNC03 5'
10932	23612	36862		2.09	0.0E+00 BF366553.1	EST_HUMAN	(L3-NT0104-202500-143-A07 NT0104 Homo sapiens cDNA
10955	18399	31311		2.73	0.0E+00 AB035266.1	NT	Homo sapiens mRNA for neurexin II, complete cds
10955	18399	31312		2.73	0.0E+00 AB035266.1	NT	Homo sapiens mRNA for neurexin II, complete cds
10960	23638	36887		2.64	0.0E+00 BE182360.1	EST_HUMAN	PM0-HT0645-060500-002-E05 HT0645 Homo sapiens cDNA
10960	23638	36888		2.64	0.0E+00 BE182360.1	EST_HUMAN	PM0-HT0645-060500-002-E05 HT0645 Homo sapiens cDNA
10961	23637			1.4	0.0E+00 AV701152.1	EST_HUMAN	AV701152 ADA Homo sapiens cDNA clone ADAAAAD06 5'
10980	23655	36908		4.07	0.0E+00 BE896423.1	EST_HUMAN	601439092F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924142 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10989	23663	36919	1.85	0.0E+00	AW500307.1	EST_HUMAN	UI-HF-BN0-akg-d-02-0-UI-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10989	23663	36920	1.85	0.0E+00	AW500307.1	EST_HUMAN	UI-HF-BN0-akg-d-02-0-UI-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10992	23666	36923	2.39	0.0E+00	BE018293.1	EST_HUMAN	bs78c04.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048488 5' similar to gb:Y00345 cds1 POLYADENYLATE-BINDING PROTEIN (HUMAN); gb:X65553 M.musculus mRNA for poly(A) binding protein (MOUSE);
11016	23688	36949	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCI_CGAP_Brm07 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23688	36950	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCI_CGAP_Brm07 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23688	36951	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCI_CGAP_Brm07 Homo sapiens cDNA clone IMAGE:4181083 5'
11028	25133	36964	1.27	0.0E+00	AW387768.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11028	25133	36965	1.27	0.0E+00	AW387768.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11034	23705	36973	1.53	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
11035	23706	36974	8.73	0.0E+00	BE897853.1	EST_HUMAN	601440446F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925403 5'
11037	23708	36977	1.89	0.0E+00	AI456545.1	EST_HUMAN	ac86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11037	23708	36978	1.89	0.0E+00	AI456545.1	EST_HUMAN	ac86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11051	23721	36982	2.76	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_r1 434 (synonym: hsc3) Homo sapiens cDNA clone DKFZp434L0120 5'
11083	23753	37028	1.61	0.0E+00	10890982	NT	Homo sapiens gephyrin (GPH), mRNA
11085	23755	37031	3.98	0.0E+00	4758827	NT	Homo sapiens neuritin III (NRXN3) mRNA
11086	23756	37032	2.67	0.0E+00	BF206591.1	EST_HUMAN	601870902F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4101433 5'
11091	23781	37036	12.22	0.0E+00	AW207734.1	EST_HUMAN	UI-H-BI2-ape-t-01-0-UI-s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'
11096	23766	37040	4.23	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11096	23766	37041	4.23	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11098	23768	37043	2.69	0.0E+00	BE206846.1	EST_HUMAN	bs04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B- 55KDA-ASSOCIATED PROTEIN.;
11098	23768	37044	2.69	0.0E+00	BE206846.1	EST_HUMAN	bs04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B- 55KDA-ASSOCIATED PROTEIN.;
11110	23780	37055	1.9	0.0E+00	11528409	NT	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
11124	23793	37069	1.52	0.0E+00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
11127	20052	33133	1.5	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
11131	23796	37074	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-H04 HT0230 Homo sapiens cDNA
11131	23799	37075	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-H04 HT0230 Homo sapiens cDNA
11154	23821	37101	1.96	0.0E+00	AW673469.1	EST_HUMAN	bs54408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900387 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN;
11154	23821	37102	1.96	0.0E+00	AW673469.1	EST_HUMAN	bs54408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900387 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11176	23843	37128	6.21	0.0E+00	BF507876.1	EST_HUMAN	U1H-B14-aok-b-10-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
11176	23843	37129	6.21	0.0E+00	BF507876.1	EST_HUMAN	U1H-B14-aok-b-10-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
11185	23850	37136	1.57	0.0E+00	AU135170.1	EST_HUMAN	AU135170 PLACE1 Homo sapiens cDNA clone PLACE1001381 5'
11189	23854	37140	1.82	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11189	23854	37141	1.82	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11190	23855	37142	1.67	0.0E+00	BF088811.1	EST_HUMAN	RC3-GN0089-190900-011-c06 GN0089 Homo sapiens cDNA
11192	23857	37143	5.5	0.0E+00	BE879401.1	EST_HUMAN	601486828F1 NIH_MGC_99 Homo sapiens cDNA clone IMAGE:3889207 5'
11192	23857	37144	5.5	0.0E+00	BE879401.1	EST_HUMAN	601486828F1 NIH_MGC_99 Homo sapiens cDNA clone IMAGE:3889207 5'
11199	23864	37150	1.84	0.0E+00	D87682.1	NT	Human mRNA for KIAA0241 gene, partial cds
11204	23868		6.95	0.0E+00	BF240536.1	EST_HUMAN	601876630F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4099710 5'
11218	23881	37166	2.04	0.0E+00	A3037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11218	23881	37167	2.04	0.0E+00	A3037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11222	23885	37170	4.17	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11222	23885	37171	4.17	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11230	23893	37179	1.8	0.0E+00	AA772837.1	EST_HUMAN	aer74g04.s1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:969942 3'
11241	23903	37192	1.62	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11241	23903		1.62	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11244	23906	37198	6.16	0.0E+00	4503544	NT	Homo sapiens eukaryotic translation initiation factor 5A (EIF5A) mRNA
11251	23913	37205	1.36	0.0E+00	BF576287.1	EST_HUMAN	602134132F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289502 5'
11254	23916	37209	5.84	0.0E+00	AW328173.1	EST_HUMAN	gr04g05.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2847177 5'
11258	23920		71.88	0.0E+00	M55083.1	NT	Human gamma actin-like pseudogene, complete cds
11264	23926	37216	2.93	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11264	23926	37217	2.93	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11271	23932	37225	105.67	0.0E+00	BF362462.1	EST_HUMAN	QV2-NN0054-230800-333-e04 NN0054 Homo sapiens cDNA
11291	23952	37249	2.34	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11291	23952	37250	2.34	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11295	23956		3.03	0.0E+00	BE897051.1	EST_HUMAN	601439605F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924577 5'
11296	23957		1.73	0.0E+00	4503766	NT	Homo sapiens fyn-related kinase (FRK) mRNA
11310	23969	37271	3.55	0.0E+00	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11313	23972		2.69	0.0E+00	BF207682.1	EST_HUMAN	601861947F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4081715 5'
11314	23973		2.03	0.0E+00	BE257744.1	EST_HUMAN	601116705F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357384 5'

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11327	24018	37321	4.02	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E18-55KDA-ASSOCIATED PROTEIN.;
11327	24018	37322	4.02	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E18-55KDA-ASSOCIATED PROTEIN.;
11329	24020	37324	3.88	0.0E+00	AW753028.1	EST_HUMAN	QV0-CT0225-101299-071-008 CT0225 Homo sapiens cDNA
11334	24025		3.06	0.0E+00	AA588707.1	EST_HUMAN	n142c08.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M95178 ALPHA-ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);
11335	18000	30623	3.84	0.0E+00	A1934954.1	EST_HUMAN	wp06g08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2484094 3'
11338	24026	37330	7.45	0.0E+00	AW327895.1	EST_HUMAN	dr02b08.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2846919 5'
11355	25134	37348	1.89	0.0E+00	AW292776.1	EST_HUMAN	UI-H-BW0-ajl-d-07-Q-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729509 3'
11362	23173	36401	2.2	0.0E+00	4758827	NT	Homo sapiens neuroxin III (NRXN3) mRNA
11368	23975	37276	1.73	0.0E+00	BE254058.1	EST_HUMAN	601113903F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354600 5'
11371	23978	37278	1.74	0.0E+00	BE965909.2	EST_HUMAN	601659098R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3896916 3'
11371	23978	37279	1.74	0.0E+00	BE965909.2	EST_HUMAN	601659098R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3896916 3'
11372	23979	37280	4.52	0.0E+00	BE185656.1	EST_HUMAN	IL5-HT0731-020500-077-005 HT0731 Homo sapiens cDNA
11373	23980		1.29	0.0E+00	BF513960.1	EST_HUMAN	UI-H-BW1-amv-a-05-Q-UI.s1 NCI_CGAP_Sub57 Homo sapiens cDNA clone IMAGE:3071121 3'
11387	23993	37294	7.81	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G178 5'
11387	23993	37285	7.81	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G178 5'
11397	24003	37306	5.89	0.0E+00	A1923116.1	EST_HUMAN	wn83g03.x1 NCI_CGAP_UI1 Homo sapiens cDNA clone IMAGE:2452488 3' similar to gb:S37431 LAMININ RECEPTOR (HUMAN);
11401	24050	37353	3.42	0.0E+00	AA760913.1	EST_HUMAN	nz11c07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686
11401	24050	37354	3.42	0.0E+00	AA760913.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN.;
11408	24055	37360	1.84	0.0E+00	BE910546.1	EST_HUMAN	nz11c07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686
11416	23183	36413	7.9	0.0E+00	BE676347.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN.;
11419	23186	36416	1.79	0.0E+00	BE615666.1	EST_HUMAN	601501080F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902928 5'
11419	23186	36417	1.79	0.0E+00	BE615666.1	EST_HUMAN	712712.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3902928 5'
11426	23193	36424	1.61	0.0E+00	AV757420.1	EST_HUMAN	CHECKPOINT SUPPRESSOR 1.;
11457	24081	37387	1.52	0.0E+00	Y18890.1	NT	601278935F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11461	24064	37370	10.31	0.0E+00	L39891.1	NT	601278935F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11461	24064	37371	10.31	0.0E+00	L39891.1	NT	AV757420 BM Homo sapiens cDNA clone BMFAGH03 5'
11476	24077	37387	4.69	0.0E+00	AU138211.1	EST_HUMAN	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
							Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
							Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
							AU138211 PLACE1 Homo sapiens cDNA clone PLACE1008077 5'



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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11491	24092	37404	1.92	0.0E+00	BE622317.1	EST_HUMAN	601441096F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5'
11518	24112	37428	1.42	0.0E+00	AI939634.1	EST_HUMAN	trn94c10.x5 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165778 3'
11529	24129	37434	13.79	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11529	24129	37435	13.79	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11539	24139	37447	1.81	0.0E+00	AU141892.1	EST_HUMAN	AU141892 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11539	24139	37448	1.81	0.0E+00	AU141892.1	EST_HUMAN	AU141892 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11542	24142	37451	2.08	0.0E+00	AW006022.1	EST_HUMAN	wz81h01.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2566225 3' similar to WP.F53H10.2 CE11040 ZINC FINGER, C2H2 TYPE :
11546	25135	37455	3.49	0.0E+00	BF002333.1	EST_HUMAN	7h2b10.x1 NCI_CGAP_Cot16 Homo sapiens cDNA clone IMAGE:3316699 3' similar to TR.Q13458 Q13458 TRIO ;
11571	24170	37485	2.88	0.0E+00	AW387776.1	EST_HUMAN	MR4-ST0118-261099-012-b03 ST0118 Homo sapiens cDNA
11571	24170	37486	2.88	0.0E+00	AW387776.1	EST_HUMAN	MR4-ST0118-261099-012-b03 ST0118 Homo sapiens cDNA
11582	24181	37521	2.41	0.0E+00	AW863777.1	EST_HUMAN	MR3-SN0010-310300-107-R03 SN0010 Homo sapiens cDNA
11601	24200	37521	4.76	0.0E+00	11435244	NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11601	24200	37522	4.76	0.0E+00	11435244	NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11608	24206	37529	5.87	0.0E+00	U36263.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 5
11612	24210	37533	2.29	0.0E+00	BE379254.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11612	24210	37534	2.29	0.0E+00	BE379254.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11632	24229	37553	2.22	0.0E+00	BE794788.1	EST_HUMAN	601580588F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'
11634	24231	37554	45.09	0.0E+00	BE879633.1	EST_HUMAN	601491821F1 NIH_MGC_99 Homo sapiens cDNA clone IMAGE:3894220 5'
11640	24237	37560	1.62	0.0E+00	4758827	NT	Homo sapiens neurxin III (NRXN3) mRNA
11640	24237	37561	1.62	0.0E+00	4758827	NT	Homo sapiens neurxin III (NRXN3) mRNA
11644	24241	37565	1.65	0.0E+00	AF053543.1	NT	Homo sapiens glutathione transferase zeta 1 (GSTZ1) gene, exons 6 and 7
11646	24243		1.56	0.0E+00	AL183204.2	NT	Homo sapiens chromosome 21 segment HS21C004
11653	24250	37572	14.06	0.0E+00	BE409993.1	EST_HUMAN	601289403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629544 5'
11654	24251	37573	1.46	0.0E+00	BE148650.1	EST_HUMAN	MR0-HT0241-150500-011-02 HT0241 Homo sapiens cDNA
11655	24252	37574	2.69	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11655	24252	37575	2.69	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11657	18187	30878	1.29	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11657	18187	30879	1.29	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11658	24254	37576	5.6	0.0E+00	BF681641.1	EST_HUMAN	602155722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5'
11658	24254	37577	5.6	0.0E+00	BF681641.1	EST_HUMAN	602155722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11662	24258		1.93	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11664	17906	30593	1.5	0.0E+00	AF272663.1	NT	Homo sapiens gephyrin mRNA, complete cds
11667	24262	37586	1.71	0.0E+00	AU132940.1	EST_HUMAN	AU132940 NT2RP4 Homo sapiens cDNA clone NT2RP4000929 5'
11670	24265	37588	1.35	0.0E+00	BE903372.1	EST_HUMAN	601676357F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958935 5'
11687	24282	37604	2.5	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11687	24282	37605	2.5	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11728	25136		15.74	0.0E+00	BF309120.1	EST_HUMAN	601890534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131416 5'
11737	24330	37654	11.96	0.0E+00	BE297175.1	EST_HUMAN	60117407F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532968 5'
11751	24342	37671	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
11751	24342	37672	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
11757	24348	37678	1.43	0.0E+00	BE257612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11757	24348	37679	1.43	0.0E+00	BE257612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11785	24375	37705	1.69	0.0E+00	BE257698.1	EST_HUMAN	60114240F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354872 5'
11780	24380	37710	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151299-001-c11 BT0348 Homo sapiens cDNA
11780	24380	37711	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151299-001-c11 BT0348 Homo sapiens cDNA
11792	24382	37713	2.23	0.0E+00	AW367811.1	EST_HUMAN	MR0-HT0166-271199-005-g03 HT0166 Homo sapiens cDNA
11792	24382	37714	2.23	0.0E+00	AW367811.1	EST_HUMAN	MR0-HT0166-271199-005-g03 HT0166 Homo sapiens cDNA
11797	24387	37720	2.46	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
11797	24387	37721	2.46	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
11808	14946		1.31	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11821	18891	31659	2.45	0.0E+00	U07223.1	NT	Human beta2-chimaerin mRNA, complete cds
11822	24407	37741	5.54	0.0E+00	Z31706.1	NT	H.sapiens GLAST1 gene for glial glutamate transporter, exon6
11835	24419	37760	2.26	0.0E+00	AI656185.1	EST_HUMAN	tt3802.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2243067 3' similar to SW:CG2G_HUMAN
11837	24421	37762	2.31	0.0E+00	AU132394.1	EST_HUMAN	P51859 G2/MITOTIC-SPECIFIC CYCLIN G1.
11879	25399	30600	2.27	0.0E+00	BE312542.1	EST_HUMAN	AU132394 NT2RP3 Homo sapiens cDNA clone NT2RP3004339 5'
11893	25257		3.89	0.0E+00	AI160993.1	EST_HUMAN	601150023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 5'
11902	24468		1.6	0.0E+00	AB011389.1	NT	qet7b12.1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1739231 3'
11921	24482		4.9	0.0E+00	AL163246.2	NT	Homo sapiens gene for AF-6, complete cds
11929	24488		4.1	0.0E+00	11417862	NT	Homo sapiens chromosome 21 segment HS21C046
11947	24501		3.05	0.0E+00	5602973	NT	Homo sapiens calpainin binding protein 1 (KIA00330), mRNA
11982	25218	30816	2.59	0.0E+00	AF240786.1	NT	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA
11993	25226		5.39	0.0E+00	AL041931.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
							DKFZp434K0819_t1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434K0819 5'

Table 4  
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12015	25369		3.12	0.0E+00	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
12023	24551		3.91	0.0E+00	AL046844.1	EST_HUMAN	DKFZp434G218.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434G218.5
12037	25261		1.68	0.0E+00	AI903497.1	EST_HUMAN	IL-BT030-271098-001 BT030 Homo sapiens cDNA
12076	25390		1.52	0.0E+00	N54484.1	EST_HUMAN	yv40e08.s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:245222 3' similar to SW_P0L_BAEVM P10272 POL POLYPROTEIN ;
12089	24594		5.88	0.0E+00	AF106658.1	NT	Homo sapiens adenylosuccinate lyase gene, complete cds
12092	13593	26262	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12092	13593	26263	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12100	25264		2.21	0.0E+00	10092587	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA
12129	13318		2.04	0.0E+00	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12218	25198	30814	2.63	0.0E+00	AW590082.1	EST_HUMAN	hg31e05.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2947234 3' similar to contains Alu repetitive element; contains element MER22 repetitive element ;
12229	25248		1.34	0.0E+00	BE090210.1	EST_HUMAN	RC6-BT0711-290300-011-D05 BT0711 Homo sapiens cDNA
12273	25258		4.43	0.0E+00	AF088757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12308	24732		3.36	0.0E+00	9635487	NT	Human endogenous retrovirus, complete genome
12351	25252		2.41	0.0E+00	AI204914.1	EST_HUMAN	an05h04.x1 Siratogene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684759 3'
12383	24778		1.68	0.0E+00	AI804946.1	EST_HUMAN	QV-BT065-020399-103 BT065 Homo sapiens cDNA
12405	14718	27436	1.51	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12405	14718	27437	1.51	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12423	24799	31039	2.08	0.0E+00	AF036365.1	NT	Homo sapiens caveolin-3 (CAV3) mRNA, complete cds
12435	14424	27119	2.76	0.0E+00	H30132.1	EST_HUMAN	yv59e08.r1 Soares breast 3NbhBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099
12435	14424	27120	2.76	0.0E+00	H30132.1	EST_HUMAN	GAMMA-GLUTAMYLTRANSPETIDASE 5 PRECURSOR (HUMAN);
12446	24816		10.66	0.0E+00	D50659.1	NT	GAMMA-GLUTAMYLTRANSPETIDASE 5 PRECURSOR (HUMAN);
12448	24818	31020	2.51	0.0E+00	11418189	NT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene
12448	24818	31021	2.51	0.0E+00	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12464	14817	27649	1.53	0.0E+00	4758489	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12502	24856		1.5	0.0E+00	AW664999.1	EST_HUMAN	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
12538	13953	26617	2.09	0.0E+00	8922593	NT	h86a06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2879154 3'
12544	24884		1.88	0.0E+00	11526291	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
12568	16069	28718	4.24	0.0E+00	4885312	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
							Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA

Table 4

## Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12576	17905	30592	3.05	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12682	24905		2.12	0.0E+00	AB029900.1	NT	Homo sapiens CST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5
12622	24927	31009	2.06	0.0E+00	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160KD subunit (CPSF1), mRNA
12648	25410		2.66	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12654	13390	26021	2.77	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12729	24999	30972	1.5	0.0E+00	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12735	25004		4	0.0E+00	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZp434P211), mRNA
12790	25042	30967	1.76	0.0E+00	AW025032.1	EST_HUMAN	wu83c07.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:2527596 3' similar to TR:Q12844 Q12844
12808	13890	26550	1.37	0.0E+00	9668844	NT	BREAKPOINT CLUSTER REGION PROTEIN ;contains TAR1.3 TAR1 repetitive element ;
12818	25251		1.39	0.0E+00	AF083824.1	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
							Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 8

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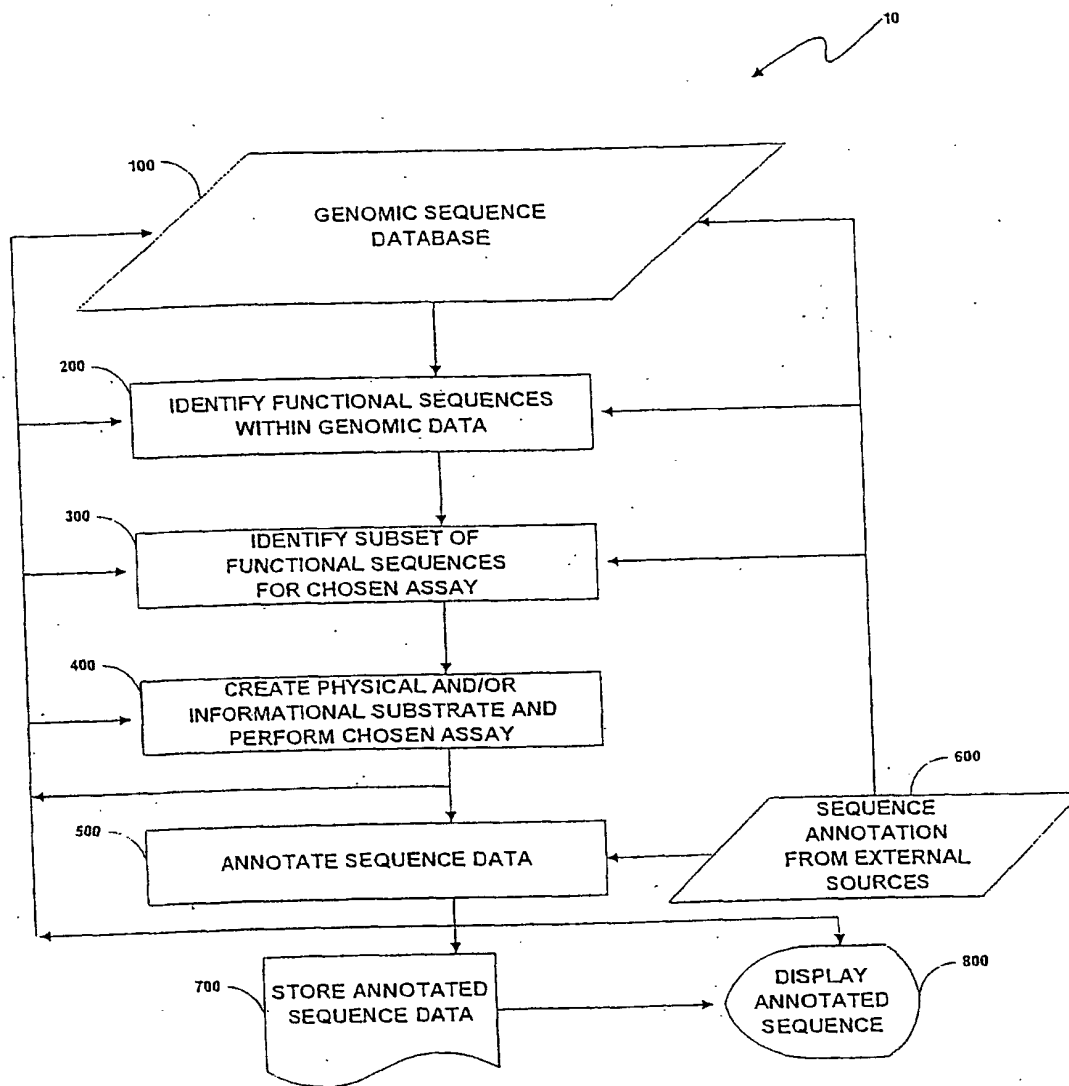


Fig. 1

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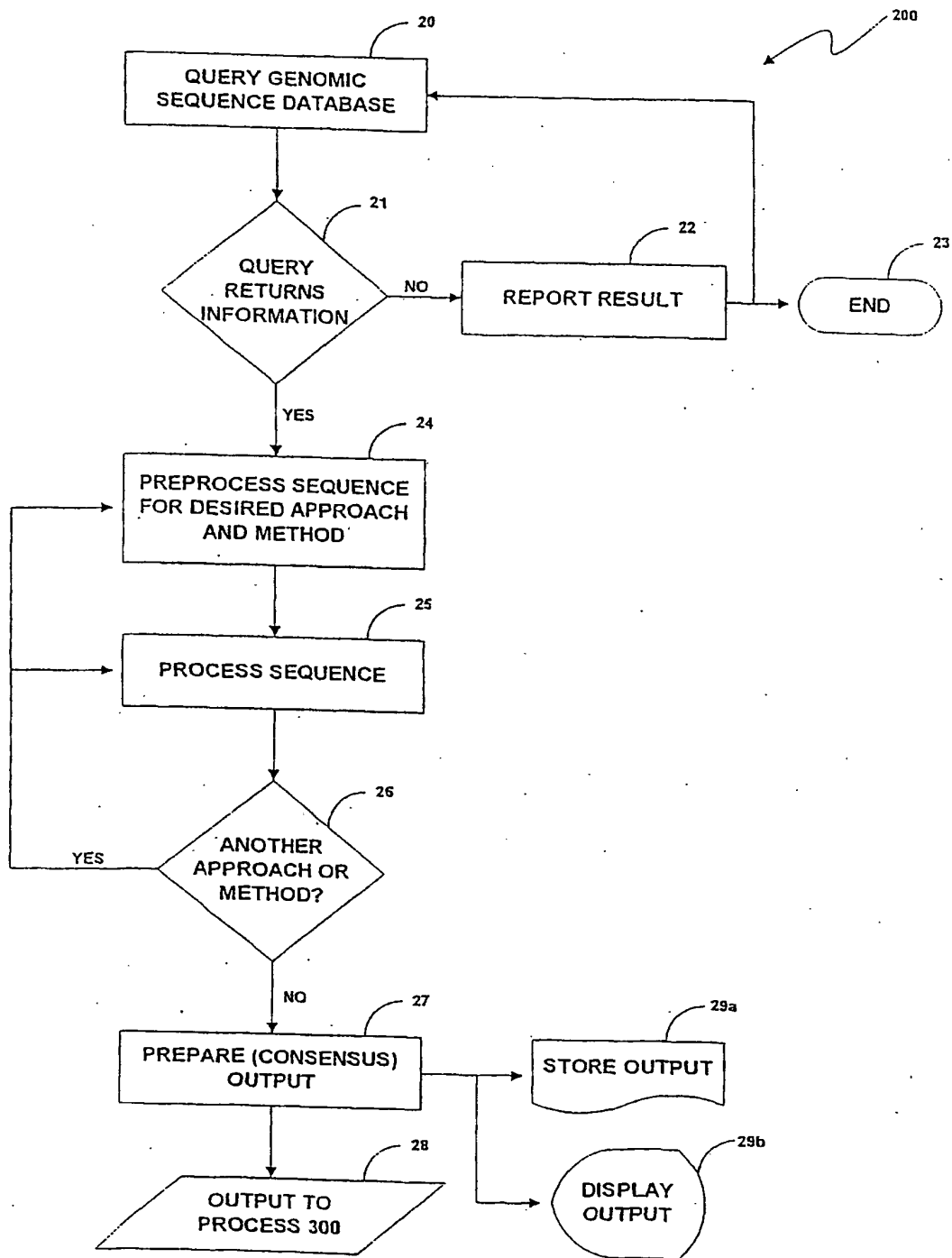


Fig. 2



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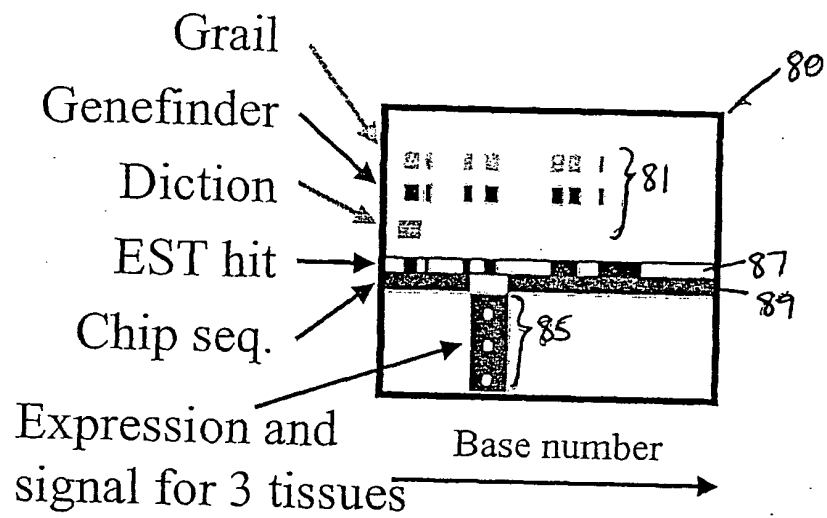


Fig. 4



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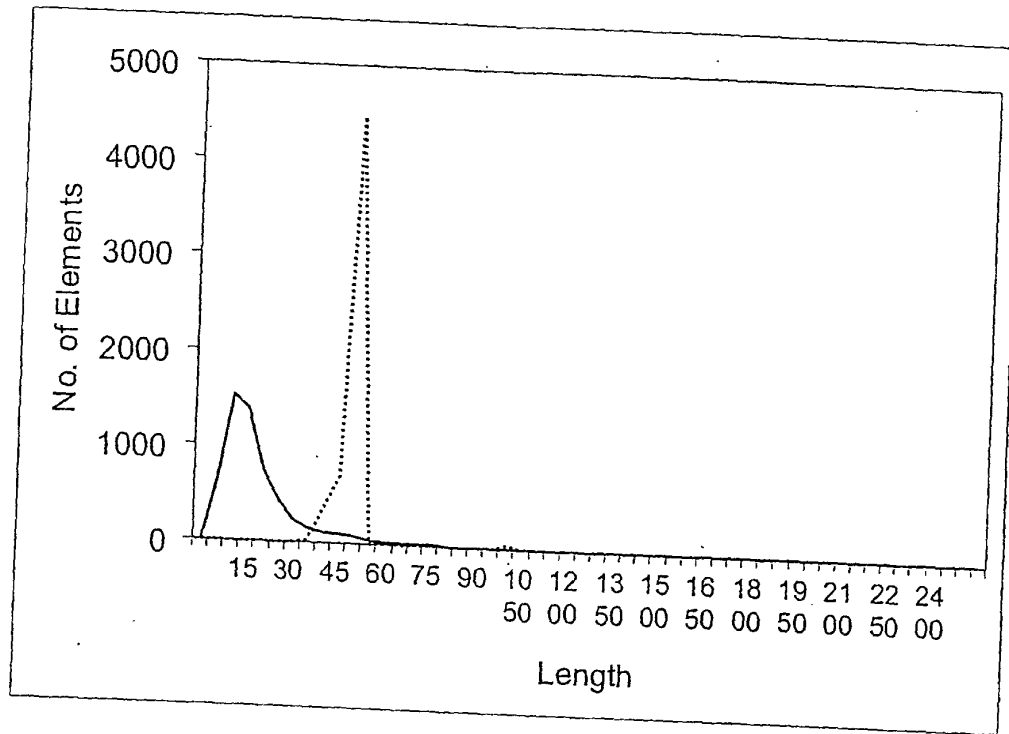


Fig. 5

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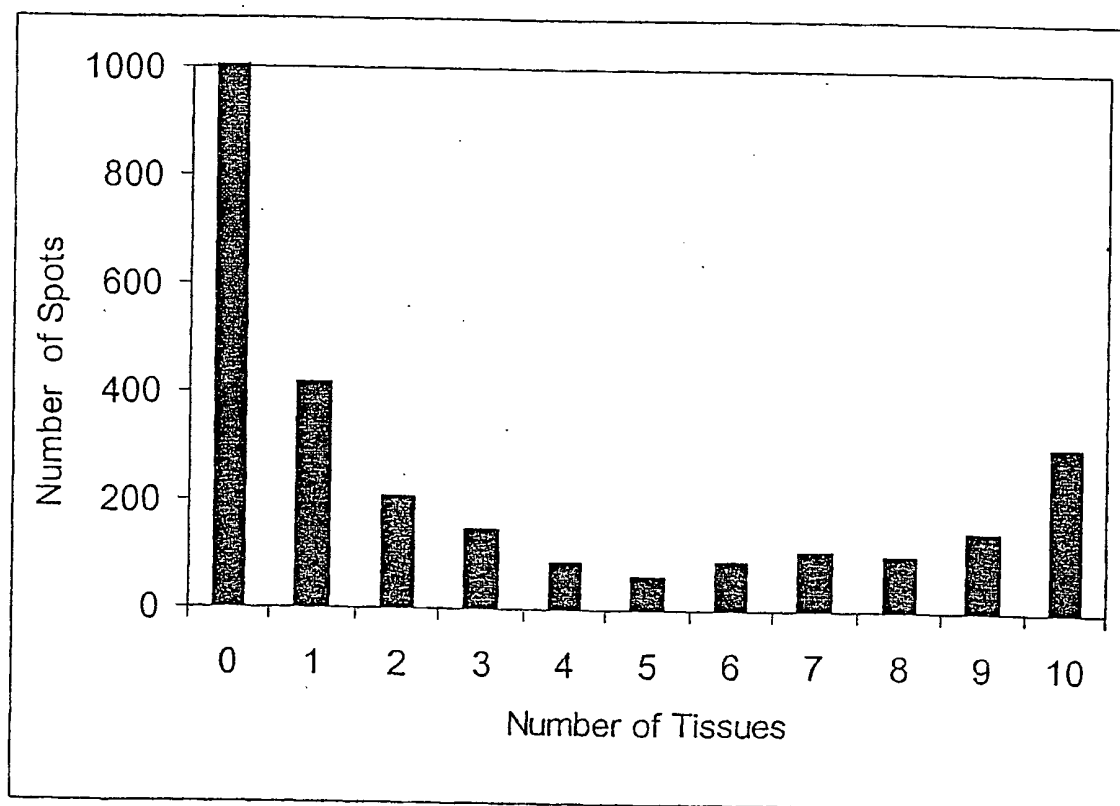


Fig. 6

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EST Hit  
Bone Marrow  
Brain  
BT474  
Fetal Liver  
HBL100  
Heart  
Hela  
Liver  
Lung  
Placenta

Fig. 7a

ratio legend

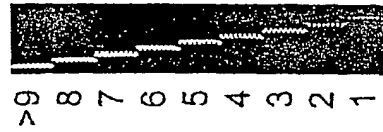


Fig. 7b

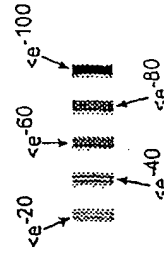


Fig. 7c

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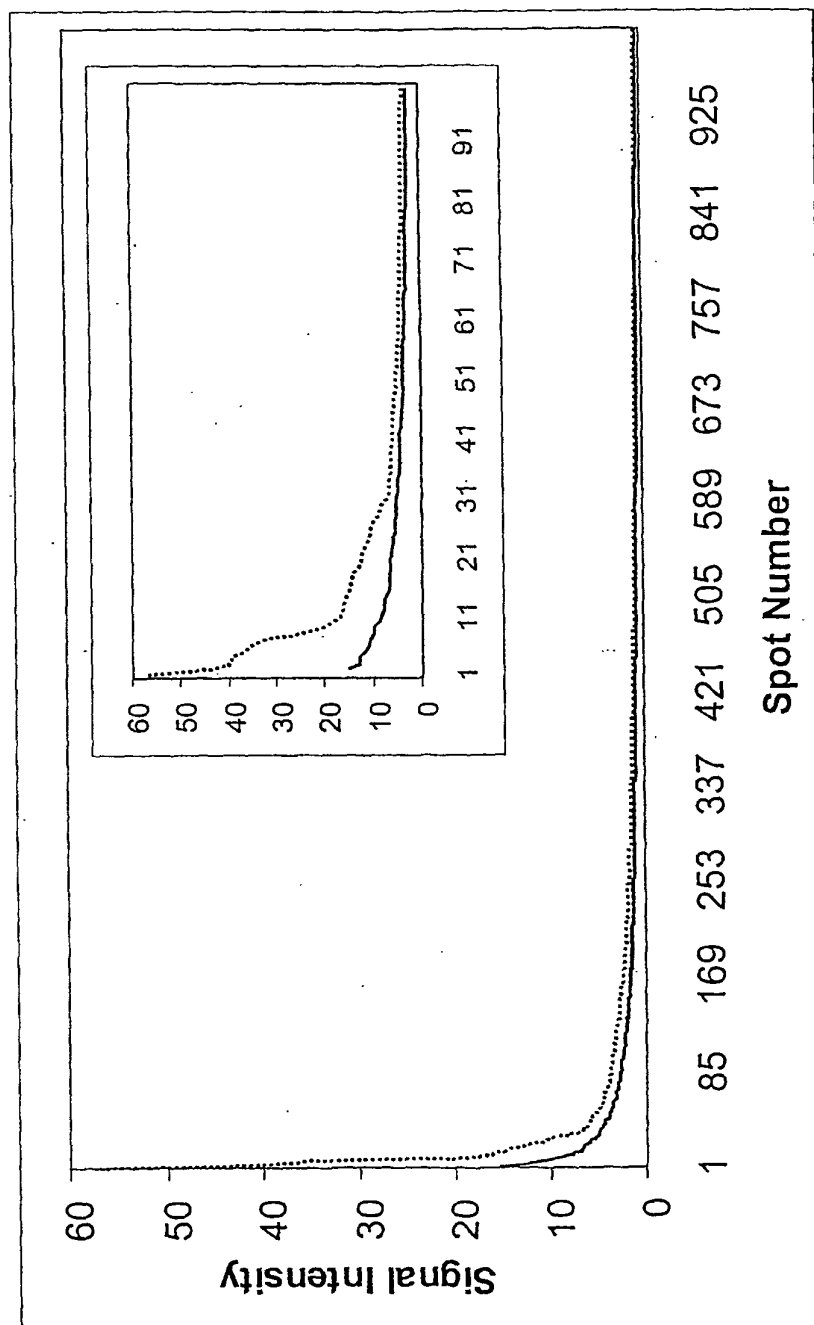


Fig. 8

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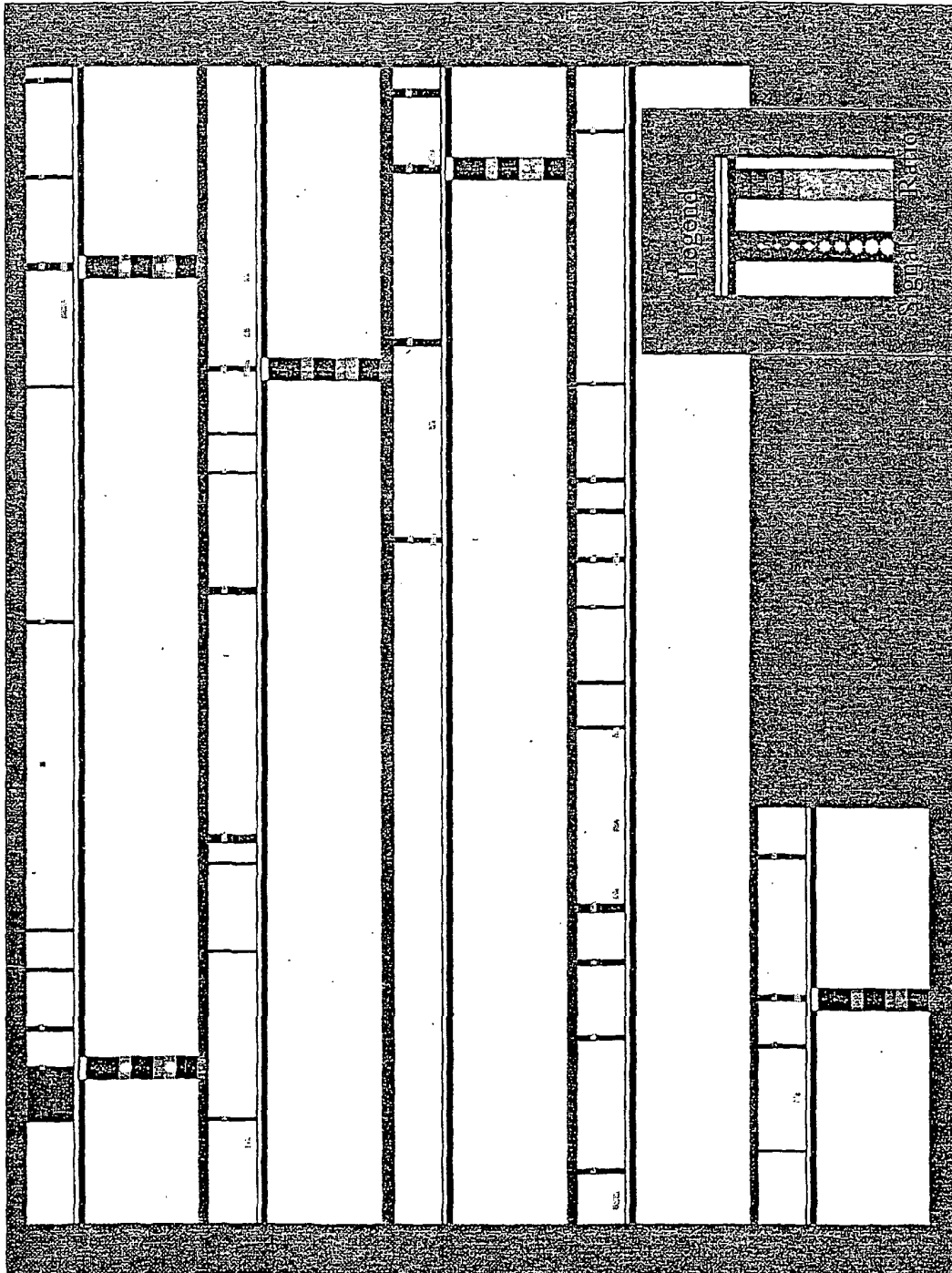


Fig. 9

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Fig. 10

